

# Cynoff<sup>®</sup> EC

## INSECTICIDE

**Only for Use and Storage by Professional Pest Control Operators**

EPA Reg. No. 279-3081

EPA Est. 279-NY-1

**Active Ingredients:**

**By Wt.**

**Cypermethrin**

<sup>\*</sup>(±)α-cyano-(3-phenoxyphenyl)methyl  
(±)-*cis,trans*-3-(2,2-dichloroethenyl)-2,  
2-dimethylcyclopropanecarboxylate ..... 24.8%

**Other Ingredients:**..... 75.2%

100.0%

Cynoff EC contains 2 pounds active ingredient per gallon.

<sup>\*</sup>Cis/trans ratio: Max. 55% (±) *cis* and min. 45% (±) *trans*

### KEEP OUT OF REACH OF CHILDREN CAUTION

See Below for Additional Precautionary Statements.



FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia PA 19103

**Net Contents: 1 Quart**

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-(800)-331-3148 for Emergency Assistance.	
NOTE TO PHYSICIAN	
Cynoff EC is a pyrethroid insecticide containing the active ingredient cypermethrin. Oral toxicity is low, but because cypermethrin is lipophilic, do not administer milk, cream or other substances containing vegetable or animal fats, which enhance absorption. Treatment is otherwise symptomatic and supportive.	
For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).	

### PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals)

**Caution**

Harmful if inhaled, swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. The active ingredient may produce sensations (burning, numbing and tingling) in some individuals. Wear impermeable gloves made of neoprene when spraying. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

## Environmental Hazards

This product is extremely toxic to fish and other aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Apply this product only as specified on this label. Care should be used when spraying to avoid fish and reptile pets. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## Physical/Chemical Hazards

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## STORAGE AND DISPOSAL

### Pesticide Storage

Do not store below 40°F. Keep out of reach of children. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800) 424-9300.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter, or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### Container Disposal

**Metal or Plastic Containers - Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: (For containers greater than 5 gallons) Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. (For containers 5 gallons or less) Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

**Returnable/Refillable Containers - Refill this container with pesticide only. Do not reuse this container for any other purpose.** Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

For residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses (non-commercial), and the nonfood/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft (Do not use in aircraft cabins), schools, nursing homes, hospitals, restaurants, hotels, and food manufacturing, processing, and servicing establishments.

Cynoff EC Insecticide is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add Cynoff EC

Insecticide. Close and shake before use in order to insure proper mixing. Mix only the amount of solution needed for the application. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

Pests	Concentration of Active Ingredient	Dilution Rate	
Ants	Firebrats	.1%	½ fl. oz. per 1 gal. of water
Biting Flies*†	Fleas*		
Boxelder Bugs	Flies*		
Centipedes*	Millipedes		
Cockroaches	Mosquitoes*†		
(maintenance)	Pillbugs		
Crickets	Silverfish		
Earwigs	Sowbugs		
Elm Leaf Beetle†			
Bees		.2%	1 fl. oz. per 1 gal. of water
Cockroaches (clean-out)			
Spiders			
Ticks			
Wasps			

\* Outdoor use only.

\*\*Not for Indoor use in California

† Not for use in California

## INDOOR USE

**Cockroaches, Crickets, Firebrats, Silverfish, Spiders, and Ticks:** Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices; also see OUTDOOR USE.

**Ants:** Apply to any trails, around doors and windows and other places where ants may be found. Refer to BARRIER TREATMENT directions to prevent infestation; also see OUTDOOR USE.

**Bees and Wasps:** Application to nests should be made late in the evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight; also see OUTDOOR USE.

**Boxelder Bugs, Centipedes, Earwigs, Elm Leaf Beetles, Millipedes, Pillbugs, and Sowbugs:** Apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations. Refer to BARRIER TREATMENT directions to prevent infestation; also see OUTDOOR USE.

**Food Handling Establishments:** Places other than private residences in which food is held, processed, prepared or served.

**Nonfood Areas:** Includes garbage rooms, lavatories, floor drains, (to sewers) entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling). Cynoff EC insecticide may be used as a general spot, crack and crevice treatment in nonfood areas. All areas where insects hide or through which insects may enter should be treated.

**Food Areas:** Do not use in food/feed areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food/feed is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed. Not for use in Federally inspected meat and poultry plants.

## OUTDOOR USE

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- (1) Treatment to soil or vegetation around structures;
- (2) Applications to lawns, turf, and other vegetation;
- (3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications, only.

For control of ants, bees, biting flies, boxelder bugs, centipedes, cockroaches, crickets, earwigs, elm leaf beetles, firebrats, fleas, flies, millipedes, mosquitoes, pillbugs, silverfish, sowbugs, spiders, ticks, and wasps. Apply by brush or as a residual spray either by hand or power

sprayer. Apply to surfaces of buildings, porches, screens, window frames, eaves, patios, residential lawns only such grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, vegetation, refuse dumps, garages and in other areas where pests are found. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use.

**Barrier Treatment:** To prevent infestation of buildings, apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Apply as a coarse spray. Thoroughly and uniformly wet the band area, using 1 gallon of spray mix per 400 square feet.

**Cluster Flies (*Calliphoridae* spp):** Apply to the outside of the structure where flies are found. Mix 1 fl. oz. Cynoff EC to 10 fl. ozs. deodorized light weight mineral oil; apply to 1,000 square feet of wall area. Use a fogging apparatus which delivers the material in a strong air carrier, producing a small particle size (10-50 microns). Hold the nozzle about three feet from the surface to be treated. Apply when wind velocity is less than 2 mph to avoid drift.

The surface to be treated should be dry at the time of application. Attics and unoccupied lofts should be treated at the same time and at the same rate.

**CAUTION:** Do not use water base sprays of Cynoff EC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

Do not apply this product to edible crops.

Do not apply this product to soil in crawl spaces.

Keep people and pets off surfaces until dry.

For best results, thoroughly wash out sprayer and screen with water and detergent before using Cynoff EC insecticide.

Do not use this product with oil (except for cluster fly control).

Do not treat pets with this product.

Do not apply in classrooms when in use.

Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.

#### Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

To the extent allowed by law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

**SAFETY DATA SHEET**  
**CYNOFF® EC INSECTICIDE**

SDS #: 1167-A  
Revision date: 2015-04-10  
Format: NA  
Version 1.01



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** CYNOFF® EC INSECTICIDE

**Other means of identification**

**Product Code(s)** 1167-A

**Synonyms** FMC 30980; (RS)- $\alpha$ -cyano-3-phenoxybenzyl  
(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate;  
cyano(3-phenoxyphenyl)methyl  
3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

**Active Ingredient(s)** Cypermethrin

**Chemical Family** Pyrethroid Pesticide

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label

**Manufacturer Address**

FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

Medical Emergencies:  
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)  
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)  
For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

GHS Label elements, including precautionary statements

**EMERGENCY OVERVIEW**

**Warning**

**Hazard Statements**  
 H302 - Harmful if swallowed  
 H313 - May be harmful in contact with skin  
 H332 - Harmful if inhaled  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H335 - May cause respiratory irritation  
 H336 - May cause drowsiness or dizziness



**Precautionary Statements - Prevention**

- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

- P314 - Get medical advice/ attention if you feel unwell
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 - Rinse mouth

**Precautionary Statements - Storage**

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Family** Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
Cypermethrin	52315-07-8	27.8
Methyl laurate	111-82-0	50-60

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	Central nervous system effects.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Alcohol-resistant foam, Water spray.
<b>Specific Hazards Arising from the Chemical</b>	
<b><u>Explosion data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for Containment</b>	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Incompatible products                      None known

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering measures**                      Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

**Skin and Body Protection**                      Wear long-sleeved shirt, long pants, socks, and shoes.

**Hand Protection**                              Protective gloves

**Respiratory Protection**                      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**                              Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

**General information**                              If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties

Appearance	Amber, Liquid
Physical State	Liquid
Color	Amber
Odor	Soapy
Odor threshold	No information available
pH	5.5
Melting point/freezing point	0 °C / 32 °F
Boiling Point/Range	No information available
Flash point	115 °C / 239 °F Closed cup
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	No information available
Specific gravity	0.96 @ 20 °C
Water solubility	Emulsifies
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available

Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	7.99 lb/gal

**10. STABILITY AND REACTIVITY**

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	None known.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides (COx), Hydrogen cyanide, Chlorine, Hydrogen chloride,

**11. TOXICOLOGICAL INFORMATION**

Product Information

LD50 Oral	1105 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rabbit)
LC50 Inhalation	1.8 mg/L (rat) 4 hr
Serious eye damage/eye irritation	Minimally irritating.
Skin corrosion/irritation	Minimally irritating.
Sensitization	Non-sensitizing.

Information on toxicological effects

**Symptoms** Large doses of cypermethrin ingested by laboratory animals produced signs of toxicity including loss of motor control, tremors, decreased activity, urinary incontinence, incoordination, increased sensitivity to sound and convulsions.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Chronic toxicity</b>	Cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver and spleen weight.
<b>Mutagenicity</b>	Cypermethrin: Not genotoxic in laboratory studies.
<b>Carcinogenicity</b>	Cypermethrin caused an increase in benign lung tumors in mice, but not in rats. EPA has classified cypermethrin as a possible human carcinogen based on this information, but does not regulate based on its low cancer risk.
<b>Neurological effects</b>	Cypermethrin: Cause clinical signs of neurotoxicity (body tremors, decreased motor activity and impaired gait) following acute, subchronic or chronic exposure.
<b>Reproductive toxicity</b>	Cypermethrin: No toxicity to reproduction in animal studies.
<b>Developmental toxicity</b>	Cypermethrin: Not teratogenic in animal studies.
<b>STOT - single exposure</b>	May cause respiratory irritation. See listed target organs below.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure. See listed target organs below.
<b>Target organ effects</b>	Cypermethrin: Central Nervous System.
<b>Neurological effects</b>	Cypermethrin: Cause clinical signs of neurotoxicity (body tremors, decreased motor activity and impaired gait) following acute, subchronic or chronic exposure.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Cypermethrin (52315-07-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Cypermethrin	48 h EC50	Crustacea	0.3	µg/L
	96 h LC50	Fish	2.8	µg/L
	72 h EC50	Algae	> 0.1	mg/L
	21 d NOEC	Crustacea	0.04	µg/L
	21 d NOEC	Fish	0.03	µg/L
	96 h NOEC	Algae	1.3	mg/L

**Persistence and degradability** Cypermethrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Cypermethrin: The substance has a potential for bioconcentration.

**Mobility** Cypermethrin: Immobile. Not expected to reach groundwater.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated for transportation if shipped in Non Bulk packaging. The classification below pertains to the shipment in Bulk packaging.

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**Marine Pollutant** Cypermethrin.  
**Description** UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PG III, Marine Pollutant

**TDG** Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**Marine Pollutant** Cypermethrin.  
**Description** UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PG III, Marine Pollutant

**ICAO/IATA**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III

<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PG III, Marine Pollutant
<b>IMDG/IMO</b>	
<b>UNID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard class</b>	9
<b>Packing Group</b>	III
<b>EmS No.</b>	F-A, S-F
<b>Marine Pollutant</b>	Cypermethrin
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PG III, Marine Pollutant

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

**FIFRA Information**

*This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:*

**CAUTION**

*Harmful if inhaled, swallowed or absorbed through the skin. Causes moderate eye irritation.  
 This product is extremely toxic to fish and other aquatic organisms.*

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Cypermethrin 52315-07-8		X	



# Gentrol Point Source<sup>®</sup>

## Roach Control Device

- AFFECTS ROACHES AND STORED PRODUCT PEST WITHOUT DIRECT CONTACT WITH THE DEVICE
- REDUCES ROACH AND STORED PRODUCT PEST POPULATIONS IN A WAY CONVENTIONAL INSECTICIDES CAN'T
- LABELED FOR USE IN FOOD HANDLING ESTABLISHMENTS

## SPECIMEN LABEL

<b>ACTIVE INGREDIENT:</b>	
(S)-Hydroprene (CAS #65733-18-8) .....	90.6%
<b>OTHER INGREDIENTS:</b> .....	
	9.4%
Total .....	100.0%

EPA Reg No. 2724-469

KEEP OUT OF REACH OF CHILDREN

### CAUTION

See additional precautionary statements.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

The active ingredient in this special roach and Stored Products Pests (SPP - red, confused flour, and merchant beetles) control product is GENTROL<sup>®</sup> insect growth regulator - a biorational insecticide similar to insect growth hormones that occur naturally in roaches and SPP. GENTROL<sup>®</sup> is unique in that it controls roach and SPP populations by inhibiting reproduction and adult emergence. One to two weeks after application, you will begin to see roaches with crinkled wings, showing the initial effects of GENTROL<sup>®</sup>. These roaches cannot reproduce. Because immature roaches are prevented from developing into reproductive adults, this product effectively breaks the roach life cycle. GENTROL<sup>®</sup> prevents SPP from becoming adults thus breaking the life cycle. By inhibiting reproduction and adult emergence, GENTROL POINT SOURCE<sup>®</sup> Roach Control Device (GENTROL POINT SOURCE<sup>®</sup>), by itself, will control cockroach and SPP populations over time. For faster results, use GENTROL POINT SOURCE<sup>®</sup> in conjunction with EPA approved products that kill adult roaches and SPP. Roach and SPP populations are difficult to control because they reproduce so rapidly. However, when a conventional insecticide designed to kill adult roaches or

SPP does not provide 100% elimination, GENTROL POINT SOURCE<sup>®</sup> works to prevent survivors from re-establishing the population.

Once GENTROL<sup>®</sup> is released, the active ingredient moves from the GENTROL POINT SOURCE<sup>®</sup> device into a localized area. Roaches and SPP do not have to come into contact with the GENTROL POINT SOURCE<sup>®</sup> device to be affected (See Figure A).

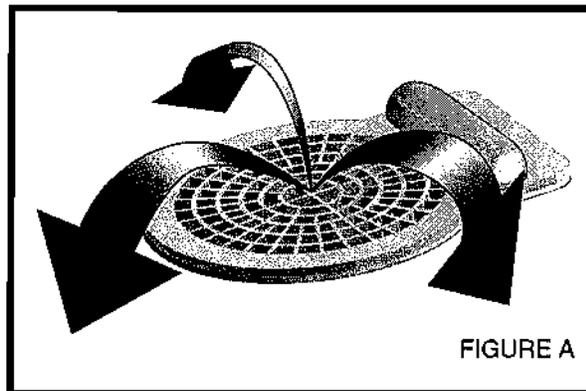


FIGURE A

Use GENTROL POINT SOURCE<sup>®</sup> in buildings and modes of transportation. Permitted sites of application include restaurants, homes, hotels, kitchens, laboratories, apartment buildings, day care centers, machinery, equipment, greenhouses, hospitals, mausoleums, nursing homes, office buildings, schools, and warehouses. GENTROL POINT SOURCE<sup>®</sup> is also intended to be used in various modes of transportation including but not limited to aircraft, buses, trucks, trailers, rail cars, and marine vessels.

### FOOD HANDLING ESTABLISHMENTS

GENTROL POINT SOURCE<sup>®</sup> may be used in areas where food is handled or processed. Placements include areas for receiving, storage, packing, edible waste storage,

machinery and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas would also be considered as a food area. GENTROL POINT SOURCE® device must not come into direct contact with any food preparation surfaces. Keep GENTROL POINT SOURCE® device a minimum distance of 3 feet from exposed food.

GENTROL POINT SOURCE® can also be used where conventional sprays and foggers are not appropriate or where baits are less effective due to competing food sources.

### APPLICATION DIRECTIONS

Do not activate the GENTROL POINT SOURCE® device until ready to use. To activate the GENTROL POINT SOURCE® device, press firmly between thumb and forefinger on the pouch located on the side of the device, until a snapping sound is heard indicating that the contents of the GENTROL® capsule have been released (See Figure B). Following activation, the GENTROL POINT SOURCE® device is now ready to apply. Place the GENTROL POINT SOURCE® device in any orientation (vertical or horizontal). Do not place in areas accessible to children.

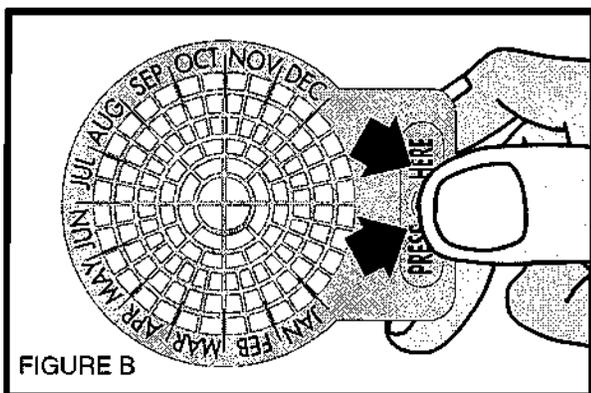


FIGURE B  
Press firmly between thumb and forefinger on the pouch located on the side of the device, until a snapping sound is heard, indicating that the contents of the GENTROL® capsule have been released.

Place the GENTROL POINT SOURCE® device in areas where roach or SPP activity has been observed. These areas include: in and around cabinets, closets, pantries, drawers, refuse areas, electrical boxes, equipment, and false ceilings. Also, place around doors, expansion joints, pipe chases, dressers, windows, heating and air conditioning ducts, refrigerators, and voids where pests are active.

Place one GENTROL POINT SOURCE® device to treat up to a 75 square foot area, paying particular attention to locations of roach or SPP activity. More devices may be needed in areas with a heavy roach or SPP infestation.

**IMPORTANT!** For vertical placement, expose sticky surface by removing paper backing and pressing the device firmly in place. In order for the GENTROL POINT SOURCE® device to adhere properly, wipe surface clean prior to application. Use as many tape strips as needed. Replace all devices every 3 months for continued effectiveness (See Figure C).

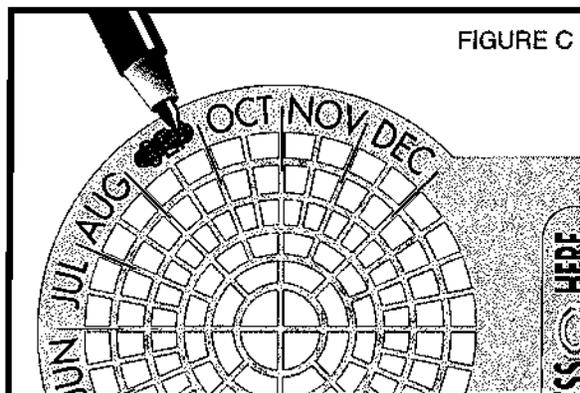


FIGURE C  
Mark with a pen the month when the GENTROL POINT SOURCE® is activated.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Storage:** Store in cool area away from children.  
**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### FIRST AID

**If in eyes** • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

For more information or in case of an emergency, call 1-800-248-7763 or visit our web site: [www.zoecon.com](http://www.zoecon.com)

Always read the label before using the product.

To the extent consistent with applicable law, Seller makes no warranty, expressed or implied, concerning the use and handling of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

**Wellmark International**  
1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173



Gentrol and Gentrol Point Source are registered trademarks and the Zoëcon logo is a trademark of Wellmark International.

November, 2007  
Schaumburg, IL

# Wellmark™

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

- Product Name** • **Genrol Point Source Roach Control Device**
- Synonyms** • 37890A; EPA Reg. No.: 2724-469; Zoecon (s)-Hydroprene Roach Control Station II
- Product Description** • Straw-colored liquid in a clear ampoule.
- Relevant identified uses of the substance or mixture and uses advised against**
- Recommended use** • Insecticide.
- Restrictions on use** •
- KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame.

#### Details of the supplier of the safety data sheet

- Manufacturer** • Wellmark International
- 1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173  
United States

#### Emergency telephone number

- Manufacturer** • 1-800-248-7763
- Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC
- Manufacturer (Transportation)** • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

- OSHA HCS 2012** • Flammable Liquids 4  
Eye Mild Irritation 2B  
Skin Sensitization 1B

#### Label elements

OSHA HCS 2012

#### WARNING



**Hazard statements** • May cause an allergic skin reaction

Combustible liquid  
 Causes eye irritation

**Precautionary statements**

**Prevention** • Wash thoroughly after handling.  
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.  
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • **IF ON SKIN:** Wash with plenty of soap and water.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.  
**In case of fire:** Use appropriate media for extinction.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.  
 Store in a well-ventilated place. Keep cool.

**Other hazards**

OSHA HCS 2012

• Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Section 3 - Composition/Information on Ingredients**

**Substances**

• Material does not meet the criteria of a substance.

**Mixtures**

Composition		
Chemical Name	Identifiers	%
(S)-Hydroprene	CAS:65733-18-8	90.6%
Butylated hydroxytoluene	CAS:128-37-0	9.4%

**Section 4: First-Aid Measures**

**Description of first aid measures**

**Inhalation**

• **IF INHALED:** If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor for further treatment advice.

**Skin**

• **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye**

• **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

**Ingestion**

- IF SWALLOWED: Do not induce vomiting unless told to by a poison control center or doctor. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

- Causes eye irritation. May cause an allergic skin reaction. Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

- Treat symptomatically and supportively.

**Section 5: Fire-Fighting Measures**

**Extinguishing media**

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.  
SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

- Unsuitable Extinguishing Media**
- Avoid heavy hose streams.

- Firefighting Procedures**
- LARGE FIRES: Move containers from fire area if you can do it without risk. Stay upwind. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray.

**Special hazards arising from the substance or mixture**

- Unusual Fire and Explosion Hazards**
- Combustible liquid.

- Hazardous Combustion Products**
- No data available.

**Advice for firefighters**

- Wear positive pressure self-contained breathing apparatus (SCBA).

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

- Personal Precautions**
- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact.

- Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering.

**Environmental precautions**

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

- Containment/Clean-up Measures**
- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

## Section 7 - Handling and Storage

### Precautions for safe handling

- Handling**
- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact.

### Conditions for safe storage, including any incompatibilities

- Storage**
- Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources.

- Incompatible Materials or Ignition Sources**
- Heat, sparks, open flame.

### Other Information

- See product label for additional information.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

- Exposure Limits/Guidelines**
- No data available.

Exposure Limits/Guidelines			
	Result	ACGIH	NIOSH
Butylated hydroxytoluene (128-37-0)	TWAs	2 mg/m <sup>3</sup> TWA (inhalable fraction and vapor)	10 mg/m <sup>3</sup> TWA

### Exposure Limits Supplemental

#### ACGIH

- Butylated hydroxytoluene (128-37-0): TLV Basis - Critical Effects: (upper respiratory tract irritation)

### Exposure controls

- Engineering Measures/Controls**
- Use adequate ventilation to remove vapors (fumes, dust, etc.)

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- In case of insufficient ventilation, wear suitable NIOSH approved respiratory protection.

#### Eye/Face

- Wear chemical splash safety goggles.

#### Hands

- Wear appropriate gloves.

#### Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

### Environmental Exposure Controls

- Refer to Section 13 - Disposal Considerations.

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Straw-colored liquid in a clear ampoule.
Color	Straw colored.	Odor	Faint fruity.
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.89 Water=1	Water Solubility	Insoluble Water Solubility is 0.54 PPM
Viscosity	No data available	Critical Temperature	No data available
<b>Volatility</b>			
Vapor Pressure	< 1 mmHg (torr) @ 77 °F(25 °C)	Vapor Density	No data available
Evaporation Rate	< 1 n-Butyl Acetate = 1		
<b>Flammability</b>			
Flash Point	182°F (84°C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**Section 10: Stability and Reactivity**

**Reactivity**

- Non-reactive

**Chemical stability**

- Stable

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

**Incompatible materials**

- Store away from oxidizers.

**Hazardous decomposition products**

- No data available.

**Section 11 - Toxicological Information**

**Information on toxicological effects**

	CAS	
Genrol Point Source Roach Control Device	NDA	Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Mild irritation
<b>Components</b>		
(S)-Hydroprene (90.6%)	65733-18-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • >34600 mg/kg; Inhalation-Rat LC50 • >5.5 mg/L 4 Hour (s); Skin-Rabbit LD50 • >5000 mg/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1B
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

**Potential Health Effects**

**Inhalation**

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

**Skin**

- Acute (Immediate)** • May cause an allergic skin reaction.
- Chronic (Delayed)** • No data available

**Eye**

- Acute (Immediate)** • Causes eye irritation.
- Chronic (Delayed)** • No data available

**Ingestion**

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** •

**CHRONIC TOXICITY/CARCINOGENICITY (S)-Hydroprene:** A chronic toxicity/carcinogenicity study in rats identified ovaries and the thyroid as target organs. An increased incidence of benign thyroid tumors was present in male rats only at the highest dose tested. Increased weights and macroscopic and microscopic changes in the ovaries were observed at the highest doses. NOEL for males was 1,000 ppm and for females 100 ppm. **SUBCHRONIC TOXICITY (S)-Hydroprene:** In a 90 -day subchronic feeding study in rats, the NOEL was 50 mg/kg/day. Changes in body weight and organ weights were observed at higher dose levels. Liver and ovaries were identified as target organs. No immunotoxic effects were observed in a study in mice when (S)-Hydroprene was fed (diet) at dose levels up to and including 1,200 mg/kg/day, continuously for 30 days.

**Mutagenic Effects**

- **MUTAGENICITY:** (S)-Hydroprene has been found negative for mutagenicity potential. It has tested negative in: 1) Ames Test, 2) in vivo cytogenetic assay, 3) micronucleus test (in vivo) and in 4) test for DNA effects- UDS in rats (in vitro).

**Carcinogenic Effects**

- (S)-Hydroprene: A chronic toxicity/carcinogenicity study in rats identified ovaries and the thyroid as target organs. An increased incidence of benign thyroid tumors was present in male rats only at the highest dose tested. Increased weights and

macroscopic and microscopic changes in the ovaries were observed at the highest doses. NOEL for males was 1,000 ppm and for females 100 ppm.

**Reproductive Effects**

DEVELOPMENTAL AND REPRODUCTIVE TOXICITY(S)-Hydroprene: Parental reproductive performance in rats remained unaffected up to a dose level of 7,500 ppm, when evaluated in a 2- generation reproduction/toxicity study. Histologically, all females of 7,500 ppm dose group had cytoplasmic vacuolation in the ovaries, but without affecting reproductive performance. The NOEL for pup development was 1,500 ppm.No teratogenic or fetotoxic effects were observed in rats when pregnant animals were exposed (gavage) to (S) Hydroprene at levels up to 1,000 mg/kg/day (highest dose tested). NOEL for maternal toxicity was 1,000 mg/kg/day.

**Section 12 - Ecological Information**

**Toxicity**

Components		
(S)-Hydroprene (90.6%)	65733-18-8	Aquatic Toxicity-Fish: 96 Hour(s) NOEC <i>Rainbow trout</i> >0.43 mg/L [Acute]

**Persistence and degradability**

- No data available.

**Bioaccumulative potential**

- No data available.

**Mobility in Soil**

- No data available.

**Other adverse effects**

**Potential Environmental Effects**

- No data available.

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not regulated in non-bulk packaging	Not Applicable	Not Applicable	Not Applicable
	NA1993	Bulk packaging: Combustible liquid, n.o.s.	3	III	Not Applicable
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
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- Special precautions for user** • None specified.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available
- Other information**
- IMO/IMDG • No data available
  - IATA/ICAO • No data available

**Section 15 - Regulatory Information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**SARA Hazard Classifications** • Acute

**FIFRA – Pesticide Labeling**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION**

**Precautionary Statements** • KEEP OUT OF THE REACH OF CHILDREN.

**Hazards to Humans and Domestic Animals** • HAZARDS TO HUMANS AND DOMESTIC ANIMALS -CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**First Aid** • IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Inventory		
Component	CAS	TSCA
Butylated hydroxytoluene	128-37-0	Yes
(S)-Hydroprene	65733-18-8	No

**Section 16 - Other Information**

Revision Summary		
Revision Date	MSDS Number	Changes
06/April/2016		• Section 3 changed. Revised composition.

- Revision Date** • 06/April/2016
- Last Revision Date** • 20/July/2015
- Preparation Date** • 20/July/2015
- Disclaimer/Statement of Liability** •  
The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.



# DeltaDust®

## Insecticide

## Specimen Label

- \* PROVIDES QUICK CONTROL OF ANTS, BEES, COCKROACHES, FLEAS, SILVERFISH, TICKS, AND NUMEROUS STORED PRODUCT PESTS.
- \* KILLS CRAWLING INSECTS UP TO 8 MONTHS WHEN LEFT UNDISTURBED.
- \* FOR USE INDOORS AND OUTDOORS.
- \* DOES NOT CLUMP OR ABSORB MOISTURE.
- \* NON-STAINING AND ODORLESS.

**ACTIVE INGREDIENT:**

Deltamethrin ..... 0.05%

**OTHER INGREDIENTS:** ..... 99.95%

100.00%

EPA REG. NO. 432-772

EPA EST. NO.

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

(TO THE USER: IF you cannot read English, do not use this product until the label has been fully explained to you.)

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

#### FIRST AID

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

In case of medical emergencies or health and safety inquiries or in case of fire, leaking or damage containers, call 1-800-334-7577.

For product information Call Toll-Free: 1-800-331-2867

See Side Panel For Additional Precautionary Statements

Contains



Insecticide

NET CONTENTS:

**BACKED  
by BAYER™**

## PRECAUTIONARY STATEMENTS

### Hazards To Humans & Domestic Animals

#### CAUTION

May be harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

### Environmental Hazards

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwater.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**IMPORTANT:** Read the entire Directions for Use, Precautions and Disclaimer of Warranties before using this product.

### STORAGE AND DISPOSAL

Do not contaminate water, feed or food by storage or disposal.

**Storage:** Store product in original container in a cool, dry, locked place out of reach of children.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures. **Container Disposal:** (For Homeowner) Do not reuse empty containers. **If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down an indoor or outdoor drain.

Containers larger than one pound may not be used or stored in food handling establishments.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

DeltaDust is a ready-to-use insecticide dust which exhibits effective knock-down and residual control against the pests listed when used according to label directions.

DeltaDust can be used for residual pest control in and on buildings and structures and their immediate surroundings. **Do not use in aircraft cabins.** Permitted areas of use include but are not limited to:

- \*aircraft
- \*animal quarters/kennels
- \*apartment buildings
- \*bakeries
- \*breweries
- \*buses
- \*Canneries
- \*cafeterias
- \*dairies
- \*food/feed manufacturing, processing and service establishments
- \*greenhouses (non-commercial)

- \*grocery stores and supermarkets
- \*hospitals
- \*hotels/motels
- \*houses
- \*industrial buildings and installations
- \*laboratories
- \*mausoleums
- \*meat slaughtering and packing plants
- \*mobile homes and recreational vehicles
- \*nursing homes/day care centers
- \*rail cars
- \*restaurants
- \*schools
- \*sewers and underground tunnels
- \*stores and institutions
- \*supermarkets
- \*telecommunication conduits
- \*theaters
- \*trucks and trailers
- \*utility vaults and conduits
- \*vessels
- \*warehouses
- \*zoos

DeltaDust is intended for applications with hand or power duster (Actisol® DPA or similar equipment), with a paint brush or by other suitable means, to hiding and runway areas and other places where insects are found.

In living areas, make applications in such a manner as to avoid depositions on exposed surfaces or introducing the material into the air. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

To apply insecticide directly into cracks and crevices, use a bulbous duster or other suitable equipment. Apply lightly and uniformly to infested area. Pay particular attention to cracks and crevices; service ducts; false floors and ceilings; wall voids; around electrical and telephone fittings and equipment; around water and sewer pipes; under and behind cabinets, refrigerators and sinks; around windows and door frames; along baseboards; in attics and crawl spaces. The amount to be applied will vary with the site but should usually be in the range of 2-3 grams of DeltaDust per square yard (or 0.5 lbs per 1000 square feet).

#### INDOOR USE

##### FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS

DeltaDust applications are permitted in both food/feed and non-food areas of food/feed handling establishments as a general surface, spot, or crack and crevice treatment. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

**Non-Food/Non-Feed Areas:** Examples of non-food/non-feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling).

**General Surface Application:** Do not apply as a general surface application in the food/feed handling areas of the facility, when the facility is in operation or foods are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

**Spot, Crack and Crevice Application:** Spot and/or Crevice applications may be made while the facility is in operation provided exposed food is covered

or removed from area being treated prior to application. Do not apply directly to food or food handling surfaces.

DeltaDust may also be applied as a void treatment using suitable equipment, as mentioned above, including Actisol® DPA equipment. Be sure to thoroughly treat service ducts, false floors and ceilings, wall voids, attics and crawl spaces. The amount of dust to be applied will vary with the site but should usually be in the range of 2-3 grams per square yard (or 0.5 lbs per 1000 square feet). Dust applications should be made in a manner to avoid deposits in exposed surfaces introducing the material in the air.

**ANTS, BOXELDER BUGS, COCKROACHES (INCLUDING BOTH RESISTANT AND NON-RESISTANT STRAINS), CRICKETS, FLEAS, FIREBRATS AND SILVERFISH:** Apply DeltaDust thoroughly to all areas where these pests crawl and hide, especially in those areas described above. For *ants*, apply to ant trails, around doors and windows and other places where ants enter premises.

**TERMITES, CARPENTER ANTS AND CARPENTER BEES:** Apply to voids or channels in damaged wooden members of a structure; to cracks, spaces or bearing joints between wooden members of a structure; or between such members and the foundation; and in locations vulnerable to termite attack. Drilling may be necessary prior to applying Deltadust in these locations, but it must be recognized that such drilling and treating of timber in a particular location may not result in complete coverage of infested and vulnerable voids or galleries. Drilling Directly overhead with subsequent application of DeltaDust should be avoided. DeltaDust can be applied in attics and crawl spaces to prevent entry of drywood and formosan termites at a rate of 0.5 lb per 1000 square feet of floor area. In these treatments, all vents and blowers should be closed. Inspect at 6 months and one year to insure that colony has been killed. Retreat if necessary. For subterranean termites the purpose of such applications of DeltaDust is to kill workers or winged forms which may be present in the treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment but merely a supplement. For active termite infestations get a professional termite inspection. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment but merely a supplement. This supplemental treatment can be particularly supportive of new construction.

**CENTIPEDES, GROUND BEETLES, MILLIPEDES, SCORPIONS, SPIDERS AND SOWBUGS:** Apply DeltaDust along and behind baseboards, to window and door frames, corners, pipes, storage locations, attics, crawl spaces, and other areas which these pests may enter or crawl.

**WASPS AND BEES:** It is generally advisable to treat wasp and bee nests in the evening when insects are less active and have returned to the nest. Wear protective clothing if deemed necessary to avoid stings. Using hand or power duster (Actisol® or similar equipment) or other suitable means, with extension tubes if necessary, thoroughly dust nest, entrance and surrounding areas where insects alight. Nests in wall voids can be located by listening with your ear against the wall. Drill a hole in the area, blow dust in and reseal. For ground wasps, dust entrance and surrounding areas. For best results check nests carefully one or two days after treatment to ensure complete kill, then remove and destroy nest to prevent emergence of newly-hatched insects. If removal is not feasible, retreat the nest, if necessary. Do not use this product to treat overhead nests.

**WEBBING CLOTHES MOTHS:** Use Deltadust as a crack and crevice treatment in closets and other storage areas where these pests are found. This is an adjunct treatment and will not control moth larvae already on the clothes. DO NOT apply this product directly to clothing.

**CARPET BEETLES (BLACK, FURNITURE, COMMON AND VARIED):** Dust where these insects are found, for example: on and under edges of floor coverings, around baseboards, under rugs and furniture, and in closets. In residential areas do not apply as a broadcast application to floors or floor coverings.

**BEDBUGS:** Apply DeltaDust thoroughly to all areas where these pests are typically found including: folds and tufts of mattresses, coils of springs, cracks and hollow posts of bedsteads, upholstery of chairs and sofas, picture frame moldings and all cracks and crevices in the room should be

treated. Allow powder to remain in contact with surface for 4-6 hours. Thoroughly vacuum treated areas, dispose of vacuum bag and place clean linens on bed.

**STORED PANTRY & PRODUCT PESTS:** To aid in the control of the exposed stages of:

cadelles	merchant grain beetles
cheese mites	red flour beetles
cigarette beetles	rice weevils
confused flour beetles	rusty grain beetles
dark meal worms	saw-toothed grain beetles
dermestid	spider beetles
drugstore beetles	tobacco moths
grain mites	yellow meal worms
granary weevils	Warehouse Moths
lesser grain borers	Indian meal
lesser mealworm	Mediterranean Flour

## II. FOOD PROCESSING PESTS

(Same crawling & flying pests as in pantry & stored product pests INDOOR) and Fruitflies, Phoridflies and Sciaridflies

Clean up waste materials, dust, dirt and other debris. Thoroughly treat floors, walls and other surfaces in storage and handling areas. Apply dust in cracks and crevices, behind and under cupboards, and other difficult to reach areas where insects may hide. DO NOT apply directly on food/feed, utensils or on areas where food/feed is stored.

## ORNAMENTAL PLANT PESTS

For the control of:

aphids	leafrollers
beet armyworms	orange tortrix
blister beetles	periodical cicada
boxelder bugs	plant bugs
certain leafminers	rose chafer
(Boxwood, Holly, Oak, Spruce Needle)	rose midges
elm leaf beetle	rose slugs
flea beetles	tent caterpillars
Japanese beetle	thrips
leafhoppers	weevils

**SHRUBS AND ORNAMENTALS:** Apply when insects or their damage first appear and repeat at weekly intervals or as necessary. Apply 8 ounces per 1000 square feet; or thoroughly apply to place a thin layer of dust on both upper and lower sides of leaves, stems and flowers.

**ROSES, PETUNIAS, CHRYSANTHEMUMS, GERANIUMS, CARNATIONS AND OTHER RELATED FLOWERS:** To control many leaf and flower chewing insects, apply as soon as the insect appears and repeat at 7 day intervals or as long as insects continue to appear. Apply a thin layer of dust on both upper and lower sides of leaves, stems and flowers.

## OUTDOOR USE

**PERIMETER TREATMENT:** Use DeltaDust as a residual treatment for control of *ants, bees, centipedes, cockroaches, crickets, firebrats, fleas, ground beetles, millipedes, scorpions, silverfish, slugs, sowbugs, spiders, ticks and wasps*. Make a residual treatment around windows and doors, porches, screens, eaves, patios, garages, under stairways, in crawl spaces and other areas where pests hide. To help prevent the invasion of buildings and structures by these pests, apply thoroughly and uniformly to the foundation and crawl spaces where pests are active and may find entrance.

**SEWER TREATMENT:** Cockroach infestations in sanitary sewers may be treated with DeltaDust to provide quick knockdown and short-term population suppression. When treating sewers, one manhole per 200 linear feet should be treated. Treatments are made by removing the manhole cover and replacing with a disc of plywood bored to receive the typical flexible

hose from portable or truck-mounted ventilating equipment. Apply 1-2 ounces of dust into the ventilating air to be dispersed quickly and thoroughly through the system.

**TELECOMMUNICATION TREATMENT:** Apply Deltadust into telecommunication conduits, cracks and crevices, junction boxes, etc. using suitable application equipment (such as Actisol® DPA Duster, or other types of application equipment capable of applying the proper amount). The amount of Deltadust to be applied will vary, but should usually be approximately 1 gram of dust per cubic foot of conduit. [To calculate cubic feet, use the following equation:

$(\pi \times \text{radius}^2 \text{ of the conduit} \times \text{length of the conduit})$ . NOTE: radius = one-half the diameter. Example: 500 linear feet of a 4" (12" = 1 foot; therefore, 0.33 ft) conduit =  $3.14 \times (0.17 \text{ ft} \times 0.17 \text{ ft}) \times 500 \text{ ft} = 45.39 \text{ cubic feet}$ ].

DeltaDust can be used in areas showing signs of active termite infestations, such as underground telecommunication cable conduits, electrical cable conduits, junction boxes and manholes. Apply dust through suitable application equipment (such as the Actisol® DPA Duster, that is capable of delivering particles suspended in a low pressure air system). Applications should be made from both ends of a run of open conduit in cases where breakdown in the conduit is suspected. Deltadust can also be applied directly to the interior of the conduits after cables have been installed. Apply at the rate of 1 gram of dust per cubic foot of conduit using equipment (i.e., Actisol® DPA Duster) that is capable of delivering particles suspended in a low pressure air system.

**FIRE ANTS:** Apply dust with a shaker can. Thoroughly apply to adequately cover mound and around the perimeter (18" from the outer edge of the mound). A second treatment may be necessary if complete control is not obtained. **DO NOT DISTURB THE MOUND PRIOR TO APPLICATION.** If possible, treat all colonies in the vicinity. Also, treat colonies which have not yet constructed a mound.

**FLEAS AND TICKS IN RODENT BURROWS:** To control fleas and ticks in and around rodent burrows around homes and other buildings, apply Deltadust with a shaker can. **For prairie dogs thoroughly treat quarantine areas and holding areas as well as burrows in open fields.** Thoroughly apply dust to adequately cover mound and around the perimeter (18" from the outer edge). Be sure to treat abandoned rodent burrows which are suspected of containing fleas and ticks. Treat for a minimum of 5 days for light rodent populations, 10 days when populations are dense. Apply as needed for control.

#### **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Sciences's control, it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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**Bayer Environmental Science**  
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DD-SL-042905A



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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

Trade name DELTADUST® INSECTICIDE

Product code (UVP) 05952247

SDS Number 102000004846

EPA Registration No. 432-772

**Relevant identified uses of the substance or mixture and uses advised against**

Use Insecticide

Restrictions on use See product label for restrictions.

**Information on manufacturer**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577 (24 hours/day)

Product Information Telephone Number 1-800-331-2867

SDS Information or Request SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other hazards**

No other hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Average % by Weight
Deltamethrin	52918-63-5	0.05
Crystalline quartz (respirable)	14808-60-7	2.50
Calcium carbonate	1317-65-3	95.40



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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	To date no symptoms are known.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

<b>Suitable</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Foam, Water
<b>Unsuitable</b>	None known.

**Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media.

<b>Flash point</b>	not applicable
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	not applicable



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<b>Upper explosion limit</b>	not applicable
<b>Explosivity</b>	no data available
<b>Dust explosion class</b>	no data available

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m3 (TWA)		OES BCS*
Quartz (Silica, Crystalline) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Quartz (Silica, Crystalline) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Quartz (Silica, Crystalline) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Quartz (Silica, Crystalline) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Quartz (Silica, Crystalline)	14808-60-7	14ug/m3 (ST ESL)	03 2012	TX ESL
Quartz (Silica, Crystalline) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Quartz (Silica, Crystalline) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Quartz (Silica, Crystalline) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3
Quartz (Silica, Crystalline) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Quartz (Silica, Crystalline) (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Calcium carbonate (Total)	1317-65-3	10 mg/m3 (REL)	2010	NIOSH
Calcium carbonate (Respirable.)	1317-65-3	5 mg/m3 (REL)	2010	NIOSH
Calcium carbonate (Total dust.)	1317-65-3	15 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium carbonate (Respirable fraction.)	1317-65-3	5 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium carbonate (Respirable fraction.)	1317-65-3	5 mg/m3 (TWA)	1989	OSHA Z1A
Calcium carbonate (Total dust.)	1317-65-3	15 mg/m3 (TWA)	1989	OSHA Z1A
Calcium carbonate (Respirable fraction.)	1317-65-3	5 mg/m3 (TWA)	06 2008	TN OEL
Calcium carbonate (Total dust.)	1317-65-3	15 mg/m3 (TWA)	06 2008	TN OEL
Calcium carbonate (Particulate.)	1317-65-3	5ug/m3 (AN ESL)	02 2013	TX ESL
Calcium carbonate (Particulate.)	1317-65-3	50ug/m3 (ST ESL)	02 2013	TX ESL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"



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**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Eye protection</b>	Safety glasses or Goggles
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white
<b>Physical State</b>	powder
<b>Odor</b>	weak characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Bulk density</b>	ca. 55.5 lb/ft <sup>3</sup> (loose)
<b>Evaporation rate</b>	not applicable
<b>Boiling Point</b>	not applicable
<b>Melting / Freezing Point</b>	not applicable
<b>Water solubility</b>	soluble
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	



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	not applicable
Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available
Dust explosion class	no data available

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

Thermal decomposition	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	no data available
Incompatible materials	Strong acids
Hazardous decomposition products	no data available

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**SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes	Skin contact, Eye contact
Immediate Effects	
Skin	May be harmful if absorbed through skin.

**Information on toxicological effects**

Acute oral toxicity	LD50 (rat) > 5,050 mg/kg
Acute inhalation toxicity	LC50 (rat) > 26.1 mg/l Exposure time: 4 h Determined in the form of dust.  LC50 (rat) > 100 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50.
Acute dermal toxicity	LD50 (rabbit) > 2,020 mg/kg



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**Skin irritation** No skin irritation (rabbit)  
**Eye irritation** No eye irritation (rabbit)  
**Sensitisation** Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

**Assessment Mutagenicity**

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

Deltamethrin 52918-63-5 Overall evaluation: 3

**OSHA**

None.

**Assessment toxicity to reproduction**

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

**Further information**

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 0.00091 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient deltamethrin.

**Toxicity to aquatic invertebrates** EC50 (Water flea (*Daphnia magna*)) 0.00056 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient deltamethrin.

**Toxicity to aquatic plants** EC50 (Algae) > 9.1 mg/l



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	Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
<b>Biodegradability</b>	Deltamethrin: ; not rapidly biodegradable
<b>Koc</b>	Deltamethrin: Koc: 10240000
<b>Bioaccumulation</b>	Deltamethrin: Bioconcentration factor (BCF) 1,400; Does not bioaccumulate.
<b>Mobility in soil</b>	Deltamethrin: Immobile in soil
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Product</b>	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow advice on product label and/or leaflet.
<b>Contaminated packaging</b>	Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

**SECTION 14: TRANSPORT INFORMATION**

<b>49CFR</b>	Not dangerous goods / not hazardous material
<b>IMDG</b>	
UN number	3077
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE)

**IATA**

**Bayer Environmental Science**  
SAFETY DATA SHEET



**DELTADUST® INSECTICIDE**

Version 3.0 / USA  
10200004846

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Print Date: 02/09/2015

UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

---

**SECTION 15: REGULATORY INFORMATION**

EPA Registration No. 432-772

US Federal Regulations

TSCA list

Calcium carbonate 1317-65-3

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Calcium carbonate 1317-65-3 MN

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

**Bayer Environmental Science**  
SAFETY DATA SHEET



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**European Inventory of Existing Commercial Substances (EINECS)**

Deltamethrin	52918-63-5
Calcium carbonate	1317-65-3

**EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** May be harmful if absorbed through skin.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

---

**SECTION 16: OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**

Health - 1      Flammability - 0      Instability - 0      Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 0      Flammability - 0      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 05/30/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.



**MAXFORCE® FC ROACH KILLER BAIT STATIONS**

Version 3.0 / USA  
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Print Date: 11/06/2014

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

**Trade name** MAXFORCE® FC ROACH KILLER BAIT STATIONS  
**Product code (UVP)** 05826399  
**SDS Number** 102000013976  
**EPA Registration No.** 432-1257

**Relevant identified uses of the substance or mixture and uses advised against**

**Use** Insecticide  
**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency telephone no.**

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577 (24 hours/day)  
**Product Information Telephone Number** 1-800-331-2867  
**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other hazards**

No particular hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Fipronil	120068-37-3	0.05



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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** To date no symptoms are known.

**Indication of any immediate medical attention and special treatment needed**

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

**Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Fight fire from upwind position. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** > 93.4 °C

**Autoignition temperature** no data available



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Lower explosion limit      no data available  
Upper explosion limit      no data available  
Explosivity                    not applicable

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions**                      Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up**      Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice**                Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections**    Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling**        Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures**                Keep away from food, drink and animal feedingstuffs.  
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers**    Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of reach of children and animals.

---

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Fipronil (Particulate.)	120068-37-3	50ug/m3 (ST ESL)	02 2013	TX ESL
Fipronil	120068-37-3	5ug/m3	02 2013	TX ESL



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(Particulate.)		(AN ESL)		
Fipronil	120068-37-3	0.035 mg/m3 (TWA)		OES BCS*
1,2-Propanediol (Vapor.)	57-55-6	1000ug/m3 (ST ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	50ppb (AN ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	500ppb (ST ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	100ug/m3 (AN ESL)	02 2013	TX ESL
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m3 (TWA)	2010	WEEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory protection</b>	Respiratory protection is not required under anticipated circumstances of exposure.
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	light tan to brown
<b>Physical State</b>	pasty
<b>Odor</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Specific Gravity</b>	no data available
<b>Evaporation rate</b>	no data available



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<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	no data available
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	not applicable
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Viscosity</b>	no data available
<b>Flash point</b>	> 93.4 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

---

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

<b>Thermal decomposition</b>	not applicable
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Exposure to moisture.
<b>Incompatible materials</b>	Strong bases, Strong acids, Strong oxidizing agents
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Exposure routes</b>	Skin contact, Ingestion
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (rat) > 5,000 mg/kg
<b>Acute inhalation toxicity</b>	no data available



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<b>Acute dermal toxicity</b>	LD50 (rat) > 5,000 mg/kg
<b>Skin irritation</b>	Slight irritation (rabbit)
<b>Eye irritation</b>	Minimally irritating. (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

Fipronil caused specific target organ toxicity in experimental animal studies in the following organ(s): liver. Fipronil caused neurobehavioral effects and/or neuropathological changes in animal studies.

**Assessment Mutagenicity**

Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Fipronil caused an increased incidence of tumours in rats in the following organ(s): Thyroid. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Fipronil caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fipronil is related to parental toxicity.

**Assessment developmental toxicity**

Fipronil did not cause developmental toxicity in rats and rabbits.

**Further information**

Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).

---

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.25 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient fipronil.
<b>Toxicity to aquatic</b>	EC50 (Daphnia magna (Water flea)) 0.19 mg/l



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<b>invertebrates</b>	Exposure time: 48 h The value mentioned relates to the active ingredient fipronil.
<b>Toxicity to aquatic plants</b>	EC50 (Scenedesmus subspicatus) 0.068 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient fipronil.
<b>Biodegradability</b>	Fipronil: ; not rapidly biodegradable
<b>Koc</b>	Fipronil: Koc: 427 - 1278
<b>Bioaccumulation</b>	Fipronil: Bioconcentration factor (BCF) 321; Does not bioaccumulate.
<b>Mobility in soil</b>	Fipronil: Slightly mobile in soils
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Product</b>	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.
<b>Contaminated packaging</b>	Do not re-use empty containers. Wrap and discard in trash. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

---

**SECTION 14: TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

---

**SECTION 15: REGULATORY INFORMATION**

<b>EPA Registration No.</b>	432-1257
<b>US Federal Regulations</b>	
<b>TSCA list</b>	None.
<b>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</b>	None.



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**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

**US States Regulatory Reporting**

**CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

None.

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

---

**SECTION 16: OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**

Health - 1      Flammability - 1      Instability - 0      Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Bayer Environmental Science**  
SAFETY DATA SHEET



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Print Date: 11/06/2014

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**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 11/06/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

**PRECAUTIONARY STATEMENTS**

Hazard to Humans and Domestic Animals

**WARNING:** May be fatal if swallowed. Wash thoroughly with soap and water after handling and before eating or smoking. This product can be absorbed through the skin. Wear a respirator and gloves when applying or handling this product. Keep away from humans, domestic animals and pets. Any person who retrieves carcasses or unused bait (including applicators) of this product must wear gloves. All handlers (including applicators) must wear long sleeved shirt and long pants, shoes plus socks, gloves, protective eyewear and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

**User Safety Requirements:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

**FIRST AID:** Have this label with you when obtaining treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

**TREATMENT FOR PET POISONING:** If animal eats tracking powder, call veterinarian at once.  
**NOTE TO VETERINARIAN:** Anticoagulant Chlorophacinone. For animals ingesting tracking powder and/or showing poisoning signs (bleeding on elevated prothrombin times), give Vitamin K.

**STORAGE AND DISPOSAL:**  
 Do not contaminate water, food or feed by storage or disposal.  
**Pesticide Storage:** Store in original container in a cool, dry place inaccessible to children and pets.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container Handling: This is a nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or dispose of empty container in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions

**RESTRICTED USE PESTICIDE**

**DUE TO HIGH ACUTE TOXICITY**

For retail sale to and use by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certificate.



**TRACKING POWDER**

**For Use Indoors  
 and in Burrows Leading Into Buildings Only**

Active ingredient: chlorophacinone .....	0.2%
Inert ingredients .....	99.8%
Total .....	100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING:** See side panel for additional precautionary statements.

**LIPHATECH®**  
 Liphatech, Inc.  
 3600 W. Elm Street  
 Milwaukee, WI 53209  
 (800) 351-1476

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**USE RESTRICTIONS:** Use only against Norway rats, Roof rats and House mice inside of homes, industrial and agricultural buildings, and similar man made structures. Rozol Tracking Powder may also be dusted into rat burrows that are located along the periphery of buildings and that are likely to serve as routes of entry into these structures. Tracking powder must be placed in locations not accessible to children, pets, domestic animals or non-target wildlife. Do not apply powder in areas where there is a possibility of contaminating water, food, feedstuffs, food or food handling equipment, or milk or meat handling equipment or surfaces that require direct contact with food. Applications in these areas are limited only to concealed, inaccessible places such as wall voids, not apply powder along walls or in corners or in open floor areas. Do not place bait or inside ventilation duct openings. Use only for the pests, and application methods described on this label.

**SELECTION OF TREATMENT AREAS:** Beginning dry areas where rats and house mice will most likely pick up the powder on their feet and ingest it during grooming. Generally, these areas are along walls by gnawed openings and burrows, in corners and concealed places, in spaces between floors and walls, or in locations where rodents or their signs have been observed. Remove goods piled directly on the floor and place on skids. Use boxes or other obstacles to force rodents to travel through constricted areas. Give special attention to the climbing ability of Roof rats. For this species, use suitable PVC, sheet metal, cardboard or similar rigid tubing securely attached to rafters or other horizontal surfaces where rats will pass. Employ tubes long enough to minimize spillage of powder through the ends.

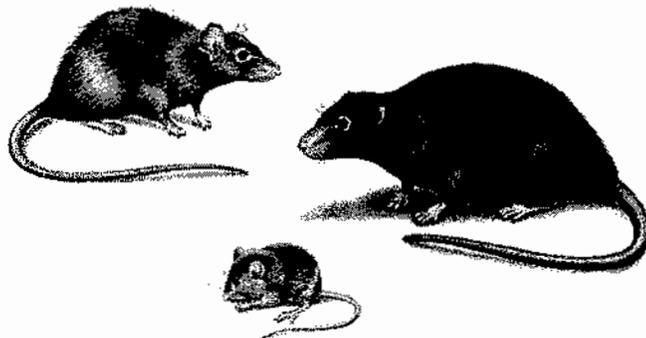
**APPLICATION DIRECTIONS:** For House mice use at the rate of 1 oz. powder per 2.5 sq. ft. of runway area. For Norway and Roof rats use at the rate of 2 oz. powder for 2.5 sq. ft. of runway area. Apply the powder into the rat burrow or holes or within walls with a hand bulb or similar duster. Do not use power dusting devices. Sprinkle the powder in patches in such a manner as to expose the rats and house mice to it. Patch size may be (but not limited to) 6 inches x 12 inches and should be adapted to each situation. For burrows that are located along the periphery of buildings and that are likely to serve as routes of entry into these structures, place about 5 grams of tracking powder in each burrow. Close burrows with soil, loose leaves or paper. Repeat treatment if burrows are reopened. Maintain powder in treated areas for at least 20 days. Wearing gloves, collect and dispose of all visible dead animals and used powder promptly. Repeat treatment when infestation recurs. Where a continuous source of infestation is present, establish permanent tracking powder stations and replenish the powder as needed. (083011)

# Safety Data Sheets

## Canadian Products

### Pest Management Division

FirstStrike® • Resolv®  
Generation® • BlueMax™ • Maki®



**LIPHA**TECH®

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[Generation® BlueMax Rodenticide Mini Blocks](#)



[Maki® Mini Blocks with Bitrex®](#)

[Maki® Bulk Rodenticide Pellets](#)



For the most up-to-date SDS information on these products, visit

[http://www.liphatech.com/pest\\_management/canadian-products](http://www.liphatech.com/pest_management/canadian-products)

From there, you can sign up for RSS feeds which will automatically notify you when Safety Data Sheets get updated.

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** FirstStrike® Soft Bait  
**Other identifier(s):** Registration No. 29503 *Pest Control Products Act*  
**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs. For indoor use only.  
**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)  
**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethialone (CAS registry number 104653-34-1) ..... 0.0025% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.  
**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.  
**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Soft paste, blue color, raw grain odor. Odor threshold not determined.  
**Solubility:** Negligible (in water) **pH:** Not applicable  
**Relative density:** 1.11 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >150 °C **Autoignition temp.:** Not determined  
**Decomposition temp.:** Not determined **Flammability:** Not a flammable solid  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☐

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **FirstStrike® Appât Mou**

Autres identificateur : No. d'Enr. 29503 *Loi sur les produits antiparasitaires*

**Restrictions d'utilisation :** Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique. Utiliser à l'intérieur seulement.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi

Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. **Attention :** Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clé.



## Section 3 : Composition / Information Sur les Ingrédients

Difethialone (no. d'enregistrement CAS 104653-34-1) ..... 0,0025% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Empoisonnement, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.

**En cas de contact avec les yeux :** Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

**En cas de contact avec la peau ou les vêtements,** enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. **En cas d'ingestion,** appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.

**Avis au médecin :** La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

**Moyens d'extinction :** Employer les moyens appropriés au feu ambiant.

**Les risques d'incendie ou d'explosion :** Aucun

**Précautions spéciales pour les pompiers :** Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

**Précautions, équipement de protection et procédures :** Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.

**Méthodes et matériel :** Ecope de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

**Précautions relatives à la sûreté en matière de manutention :** Lire l'étiquette complète du produit avant d'utiliser ce produit antiparasitaire.

**Conditions de sûreté en matière de stockage :** Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

**Valeurs limites d'exposition professionnelle ou biologiques :** Non attribuée  
**Contrôles d'ingénierie appropriés :** Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

**Mesures de protection individuelle :** Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

**État physique, apparence et odeur :** Pâte souple, couleur bleue, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.

**Solubilité :** Négligeable (à l'eau)

**le pH :** Sans objet

**Densité relative :** 1,11 g/cc

**Viscosité :** Sans objet

**Volatilité (% du vol.) :** Sans objet

**Taux d'évaporation :** Sans objet

**Densité de vapeur :** Sans objet

**Pression de vapeur :** Sans objet

**Point d'ébullition :** Sans objet

**Point de congélation :** Sans objet

**Point d'éclair (ASTM D92) :** >150 °C

**Temp. d'auto-inflammation :** Indéterminée

**Temp. de décomposition :** Indéterminée

**Inflammabilité :** Pas un solide inflammable

**Limites d'explosion inférieure :** Sans objet, **Limite supérieure :** Sans objet

**Coefficient de partage (n-octanol/eau) :** Sans objet

## Section 10 : Stabilité et Réactivité

**Réactivité :** Pas réactive, pas sensibles aux chocs ou aux décharges statiques

**Stabilité chimique :** Stable

**Risque de réactions dangereuses :** Aucune

**Matériaux incompatibles :** Aucune

**Conditions à éviter :** Aucune

**Produits de décomposition dangereux :** Oxydes de carbone

## Section 11 : Données Toxicologiques

**Voies d'exposition probables :** Ingestion orale, absorption cutanée.

**Symptômes de toxicité :** Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.

**Effets sur les yeux :** Irritation bénigne et temporaire

**Effets aigus - voie orale :** DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg

**Effets aigus de l'inhalation :** CL<sub>50</sub> (rat, 4 heures) : 200 mg/Litre (extrapolé)

**Effets aigus-voie dermique :** DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg

**Irritation de la peau :** Non irritant

**Sensibilisation de la peau :** Ne sensibilise pas la peau

**Cancérogénicité :** Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vérifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.

**Classe de danger, groupe d'emballage, numéro ONU :** Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la *Loi sur les produits antiparasitaires*.

L'étiquette de pesticide aux exigences différent des critères de classification de danger et les renseignements requis par la *Loi sur les produits dangereux* sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la *Loi sur les produits antiparasitaires*.

## Section 16 : Autres informations

**Préparée par :** T. Schmitl **Date :** 2 février 2015

Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Nulle garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ☒

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** **Resolv® Soft Bait**  
**Other identifier(s):** Registration No. 31322 *Pest Control Products Act*  
**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs.  
**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)  
**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Bromadiolone (CAS registry number 28772-56-7) ..... 0.005% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.  
**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.  
**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.  
**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Soft paste, green color, raw grain odor. Odor threshold not determined.  
**Solubility:** Negligible (in water) **pH:** Not applicable  
**Relative density:** 1.25 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >150 °C **Autoignition temp.:** Not determined  
**Decomposition temp.:** Not determined **Flammability:** Not a flammable solid  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 8.6 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☐

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Resolv® Appât Mou**

Autres identificateur : No. d'Enr. 31322 *Loi sur les produits antiparasitaires*

Restrictions d'utilisation : Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi  
Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. **Attention** : Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clef.



## Section 3 : Composition / Information Sur les Ingrédients

Bromadiolone (no. d'enregistrement CAS 28772-56-7) ..... 0.005% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.  
**En cas de contact avec les yeux** : Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.  
**En cas de contact avec la peau ou les vêtements**, enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. **En cas d'ingestion**, appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.  
**Avis au médecin** : La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

Moyens d'extinction : Employer les moyens appropriés au feu ambiant.  
Les risques d'incendie ou d'explosion : Aucun  
Précautions spéciales pour les pompiers : Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

Précautions, équipement de protection et procédures : Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.  
Méthodes et matériel : Écoper de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

Précautions relatives à la sûreté en matière de manutention : Lire l'étiquette complet du produit avant d'utiliser ce produit antiparasitaire.  
Conditions de sûreté en matière de stockage : Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

Valeurs limites d'exposition professionnelle ou biologiques : Non attribuée  
Contrôles d'ingénierie appropriés : Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

Mesures de protection individuelle : Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

État physique, apparence et odeur : Pâte souple, couleur vert, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.  
Solubilité : Négligeable (à l'eau) le pH : Sans objet  
Densité relative : 1,25 g/cc Viscosité : Sans objet  
Volatilité (% du vol.) : Sans objet Taux d'évaporation : Sans objet  
Densité de vapeur : Sans objet Pression de vapeur : Sans objet  
Point d'ébullition : Sans objet Point de congélation : Sans objet  
Point d'éclair (ASTM D92) : >150 °C Temp. d'auto-inflammation : Indéterminée  
Temp. de décomposition : Indéterminée Inflammabilité : Pas un solide inflammable  
Limites d'explosion inférieure : Sans objet, Limite supérieure : Sans objet  
Coefficient de partage (n-octanol/eau) : Sans objet

## Section 10 : Stabilité et Réactivité

Réactivité : Pas réactive, pas sensibles aux chocs ou aux décharges statiques  
Stabilité chimique : Stable Risque de réactions dangereuses : Aucune  
Matériaux incompatibles : Aucune Conditions à éviter : Aucune  
Produits de décomposition dangereux : Oxydes de carbone

## Section 11 : Données Toxicologiques

Voies d'exposition probables : Ingestion orale, absorption cutanée.  
Symptômes de toxicité : Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.  
Effets sur les yeux : Irritation bénigne et temporaire  
Effets aigus - voie orale : DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg  
Effets aigus de l'inhalation : CL<sub>50</sub> (rat, 4 heures) : 8.6 mg/litre (extrapolé)  
Effets aigus-voie dermique : DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg  
Irritation de la peau : Non irritant  
Sensibilisation de la peau : Ne sensibilise pas la peau  
Cancérogénicité : Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vérifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.  
Classe de danger, groupe d'emballage, numéro ONU : Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la *Loi sur les produits antiparasitaires*. L'étiquette de pesticide aux exigences différentes des critères de classification de danger et les renseignements requis par la *Loi sur les produits dangereux* sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la *Loi sur les produits antiparasitaires*.

## Section 16 : Autres informations

Préparée par : T. Schmit Date : 2 février 2015  
Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Nulle garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ☺

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** **Generation® Mini Blocks**  
**Other identifier(s):** Registration No. 26618 *Pest Control Products Act*  
**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs. For indoor use only.  
**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)  
**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethialone (CAS registry number 104653-34-1) ..... 0.0025% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.  
**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.  
**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.  
**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Solid block, yellow color, raw grain odor. Odor threshold not determined.  
**Solubility:** Negligible (in water) **pH:** Not applicable  
**Relative density:** 1.05 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >190 °C **Autoignition temp.:** Not determined  
**Decomposition temp.:** Not determined **Flammability:** Not a flammable solid  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☼

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Generation® Bloc Mini**

Autres identificateur : No. d'Enr. 26618 *Loi sur les produits antiparasitaires*

Restrictions d'utilisation : Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique. Utiliser à l'intérieur seulement.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi

Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. Attention : Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous cléf.



## Section 3 : Composition / Information Sur les Ingrédients

Difethialone (no. d'enregistrement CAS 104653-34-1) ..... 0.0025% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Empoisonnement, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.

**En cas de contact avec les yeux :** Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

**En cas de contact avec la peau ou les vêtements,** enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. En cas d'ingestion, appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.

**Avis au médecin :** La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

Moyens d'extinction : Employer les moyens appropriés au feu ambiant.

Les risques d'incendie ou d'explosion : Aucun

Précautions spéciales pour les pompiers : Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

Précautions, équipement de protection et procédures : Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.

Méthodes et matériel : Ecope de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

Précautions relatives à la sûreté en matière de manutention : Lire l'étiquette complète du produit avant d'utiliser ce produit antiparasitaire.

Conditions de sûreté en matière de stockage : Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

Valeurs limites d'exposition professionnelle ou biologiques : Non attribuée  
Contrôles d'ingénierie appropriés : Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

Mesures de protection individuelle : Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

État physique, apparence et odeur : Blocs solide, couleur jaune, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.

Solubilité : Négligeable (à l'eau) le pH : Sans objet  
Densité relative : 1.05 g/cc Viscosité : Sans objet  
Volatilité (% du vol.) : Sans objet Taux d'évaporation : Sans objet  
Densité de vapeur : Sans objet Pression de vapeur : Sans objet  
Point d'ébullition : Sans objet Point de congélation : Sans objet  
Point d'éclair (ASTM D92) : >190 °C. Temp. d'auto-inflammation : Indéterminée  
Temp. de décomposition : Indéterminée Inflammabilité : Pas un solide inflammable  
Limites d'explosion inférieure : Sans objet, Limite supérieure : Sans objet  
Coefficient de partage (n-octanol/eau) : Sans objet

## Section 10 : Stabilité et Réactivité

Réactivité : Pas réactive, pas sensibles aux chocs ou aux décharges statiques  
Stabilité chimique : Stable Risque de réactions dangereuses : Aucune  
Matériaux incompatibles : Aucune Conditions à éviter : Aucune  
Produits de décomposition dangereux : Oxydes de carbone

## Section 11 : Données Toxicologiques

Voies d'exposition probables : Ingestion orale, absorption cutanée.

Symptômes de toxicité : Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.

Effets sur les yeux : Irritation bénigne et temporaire  
Effets aigus - voie orale : DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg  
Effets aigus de l'inhalation : CL<sub>50</sub> (rat, 4 heures) : 200 mg/Litre (extrapolé)  
Effets aigus-voie dermique : DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg  
Irritation de la peau : Non irritant  
Sensibilisation de la peau : Ne sensibilise pas la peau  
Cancérogénicité : Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vérifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.

Classe de danger, groupe d'emballage, numéro ONU : Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la *Loi sur les produits antiparasitaires*. L'étiquette de pesticide aux exigences différent des critères de classification de danger et les renseignements requis par la *Loi sur les produits dangereux* sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la *Loi sur les produits antiparasitaires*.

## Section 16 : Autres informations

Préparée par : T. Schmit

Date : 2 février 2015

Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Nulle garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ☺

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** Generation® Pellets  
**Other identifier(s):** Registration No. 26279 Pest Control Products Act  
**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs. For indoor use only.  
**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)  
**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethalione (CAS registry number 104653-34-1) ..... 0.0025% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.  
**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.  
**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.  
**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Solid pellets, yellow color, raw grain odor. Odor threshold not determined.  
**Solubility:** Negligible (in water) **pH:** Not applicable  
**Relative density:** 1.27 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >190 °C **Autoignition temp.:** Not determined  
**Decomposition temp.:** Not determined **Flammability:** Not a flammable solid  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☼

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Generation® Granulés**

Autres identificateur : No. d'Enr. 26279 Loi sur les produits antiparasitaires

Restrictions d'utilisation : Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique. Utiliser à l'intérieur seulement.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi

Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. Attention : Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clef.



## Section 3 : Composition / Information Sur les Ingrédients

Difethalione (no. d'enregistrement CAS 104653-34-1) ..... 0,0025% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.

En cas de contact avec les yeux : Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

En cas de contact avec la peau ou les vêtements, enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. En cas d'ingestion, appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.

Avis au médecin : La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

Moyens d'extinction : Employer les moyens appropriés au feu ambiant.

Les risques d'incendie ou d'explosion : Aucun

Précautions spéciales pour les pompiers : Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

Précautions, équipement de protection et procédures : Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.

Méthodes et matériel : Écoper de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

Précautions relatives à la sûreté en matière de manutention : Lire l'étiquette complet du produit avant d'utiliser ce produit antiparasitaire.

Conditions de sûreté en matière de stockage : Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

Valeurs limites d'exposition professionnelle ou biologiques : Non attribuée  
Contrôles d'ingénierie appropriés : Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

Mesures de protection individuelle : Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

État physique, apparence et odeur : Granulés solide, couleur jaune, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.

Solubilité : Négligeable (à l'eau)

le pH : Sans objet

Densité relative : 1,27 g/cc

Viscosité : Sans objet

Volatilité (% du vol.) : Sans objet

Taux d'évaporation : Sans objet

Densité de vapeur : Sans objet

Pression de vapeur : Sans objet

Point d'ébullition : Sans objet

Point de congélation : Sans objet

Point d'éclair (ASTM D92) : >190 °C

Temp. d'auto-inflammation : Indéterminée

Temp. de décomposition : Indéterminée

Inflammabilité : Pas un solide inflammable

Limites d'explosion inférieure : Sans objet. Limite supérieure : Sans objet

Coefficient de partage (n-octanol/eau) : Sans objet

## Section 10 : Stabilité et Réactivité

Réactivité : Pas réactive, pas sensibles aux chocs ou aux décharges statiques

Stabilité chimique : Stable

Risque de réactions dangereuses : Aucune

Matériaux incompatibles : Aucune

Conditions à éviter : Aucune

Produits de décomposition dangereux : Oxydes de carbone

## Section 11 : Données Toxicologiques

Voies d'exposition probables : Ingestion orale, absorption cutanée.

Symptômes de toxicité : Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.

Effets sur les yeux :

Irritation bénigne et temporaire

Effets aigus - voie orale : DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg

Effets aigus de l'inhalation : CL<sub>50</sub> (rat, 4 heures) : 200 mg/Litre (extrapolé)

Effets aigus-voie dermique : DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg

Irritation de la peau :

Non irritant

Sensibilisation de la peau : Ne sensibilise pas la peau

Cancérogénicité : Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vérifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se déparier, s'adresser au fabricant ou à l'organisme de réglementation provinciale.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.

Classe de danger, groupe d'emballage, numéro ONU : Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la Loi sur les produits antiparasitaires.

L'étiquette de pesticide aux exigences diffèrent des critères de classification de danger et les renseignements requis par la Loi sur les produits dangereux sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la Loi sur les produits antiparasitaires.

## Section 16 : Autres Informations

Préparée par : T. Schmit Date : 2 février 2015

Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Nulle garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ☺

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** **Generation® Rodenticide Pellets Mini Place Packs**

**Other identifier(s):** Registration No. 26603 *Pest Control Products Act*

**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs. For indoor use only.

**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)

**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2

**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethialone (CAS registry number 104653-34-1) ..... 0.0025% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire

**Specific fire or explosion hazards:** None known

**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.

**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.

**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.

**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Solid pellets, yellow color, raw grain odor. Odor threshold not determined.

**Solubility:** Negligible (in water)      **pH:** Not applicable

**Relative density:** 1.27 g/cc      **Viscosity:** Not applicable

**% Volatile (volume):** Not applicable      **Evaporation rate:** Not applicable

**Vapor density:** Not applicable      **Vapor pressure:** Not applicable

**Boiling point:** Not determined      **Freezing point:** Not applicable

**Flash point (ASTM D92):** >190 °C      **Autoignition temp.:** Not determined

**Decomposition temp.:** Not determined      **Flammability:** Not a flammable solid

**Explosive limits - Lower limit:** Not applicable; Upper limit: Not applicable

**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge

**Chemical stability:** Stable      **Hazardous reactions:** None

**Incompatible materials:** None      **Conditions to avoid:** None

**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.

**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.

**Eye effects/eye irritation:** Mild, transient irritant

**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg

**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)

**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg

**Skin irritation:** Non-irritating

**Skin sensitization:** Not a skin sensitizer

**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.

**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit      **Date:** 2 February 2015

This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☞

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Generation® Granulés Raticide Minipaquets à Disposer**

Autres identificateur : No. d'Enr. 26603 *Loi sur les produits antiparasitaires*

**Restrictions d'utilisation :** Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique. Utiliser à l'intérieur seulement.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi

Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2. Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. Attention : Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clef.



## Section 3 : Composition / Information Sur les Ingrédients

Difluthalone (no. d'enregistrement CAS 104653-34-1) ..... 0.0025% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.  
**En cas de contact avec les yeux :** Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.  
**En cas de contact avec la peau ou les vêtements,** enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. **En cas d'ingestion,** appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.  
**Avis au médecin :** La vitamine K<sub>1</sub> par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

**Moyens d'extinction :** Employer les moyens appropriés au feu ambiant.  
**Les risques d'incendie ou d'explosion :** Aucun  
**Précautions spéciales pour les pompiers :** Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

**Précautions, équipement de protection et procédures :** Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.  
**Méthodes et matériel :** Ecope de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

**Précautions relatives à la sûreté en matière de manutention :** Lire l'étiquette complet du produit avant d'utiliser ce produit antiparasitaire.  
**Conditions de sûreté en matière de stockage :** Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

**Valeurs limites d'exposition professionnelle ou biologiques :** Non attribuée  
**Contrôles d'ingénierie appropriés :** Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

**Mesures de protection individuelle :** Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

État physique, apparence et odeur : Granulés solide, couleur jaune, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.  
Solubilité : Négligeable (à l'eau) le pH : Sans objet  
Densité relative : 1,27 g/cc Viscosité : Sans objet  
Volatilité (% du vol.) : Sans objet Taux d'évaporation : Sans objet  
Densité de vapeur : Sans objet Pression de vapeur : Sans objet  
Point d'ébullition : Sans objet Point de congélation : Sans objet  
Point d'éclair (ASTM D92) : >190 °C Temp. d'auto-inflammation : Indéterminée  
Temp. de décomposition : Indéterminée Inflammabilité : Pas un solide inflammable  
Limites d'explosion inférieure : Sans objet, Limite supérieure : Sans objet  
Coefficient de partage (n-octanol/eau) : Sans objet

## Section 10 : Stabilité et Réactivité

Réactivité : Pas réactive, pas sensibles aux chocs ou aux décharges statiques  
Stabilité chimique : Stable Risque de réactions dangereuses : Aucune  
Matériaux incompatibles : Aucune Conditions à éviter : Aucune  
Produits de décomposition dangereux : Oxydes de carbone

## Section 11 : Données Toxicologiques

**Voies d'exposition probables :** Ingestion orale, absorption cutanée.  
**Symptômes de toxicité :** Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.  
**Effets sur les yeux :** Irritation bénigne et temporaire  
**Effets aigus - voie orale :** DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg  
**Effets aigus de l'inhalation :** CL<sub>50</sub> (rat, 4 heures) : 200 mg/litre (extrapolé)  
**Effets aigus-voie dermique :** DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg  
**Irritation de la peau :** Non irritant  
**Sensibilisation de la peau :** Ne sensibilise pas la peau  
**Cancérogénicité :** Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vénifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.  
**Classe de danger, groupe d'emballage, numéro ONU :** Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la *Loi sur les produits antiparasitaires*. L'étiquette de pesticide aux exigences diffèrent des critères de classification de danger et les renseignements requis par la *Loi sur les produits dangereux* sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la *Loi sur les produits antiparasitaires*.

## Section 16 : Autres informations

Préparée par : T. Schmit Date : 2 février 2015  
Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Aucune garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ☒

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** **Generation® BlueMax Rodenticide Mini Blocks**

**Other identifier(s):** Registration No. 27619 *Pest Control Products Act*

**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs. For indoor use only.

**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm (US Central time zone)

**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2

**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethialone (CAS registry number 104653-34-1) ..... 0.0025% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire

**Specific fire or explosion hazards:** None known

**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.

**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.

**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.

**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Solid block, blue color, raw grain odor. Odor threshold not determined.

**Solubility:** Negligible (in water)      **pH:** Not applicable

**Relative density:** 1.1 g/cc      **Viscosity:** Not applicable

**% Volatile (volume):** Not applicable      **Evaporation rate:** Not applicable

**Vapor density:** Not applicable      **Vapor pressure:** Not applicable

**Boiling point:** Not determined      **Freezing point:** Not applicable

**Flash point (ASTM D92):** >190 °C      **Autoignition temp.:** Not determined

**Decomposition temp.:** Not determined      **Flammability:** Not a flammable solid

**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable

**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge

**Chemical stability:** Stable      **Hazardous reactions:** None

**Incompatible materials:** None      **Conditions to avoid:** None

**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.

**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.

**Eye effects/eye irritation:** Mild, transient irritant

**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg

**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)

**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg

**Skin irritation:** Non-irritating

**Skin sensitization:** Not a skin sensitizer

**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.

**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmil      **Date:** 2 February 2015

This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☺

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Generation® BlueMax Raticide Bloc Mini**

Autres identificateur : No. d'Enr. 27619 *Loi sur les produits antiparasitaires*  
**Restrictions d'utilisation :** Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique. Utiliser à l'intérieur seulement.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi  
Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. **Attention :** Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clef.



## Section 3 : Composition / Information Sur les Ingrédients

Difethalone (no. d'enregistrement CAS 104653-34-1) ..... 0.0025% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.  
**En cas de contact avec les yeux :** Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.  
**En cas de contact avec la peau ou les vêtements,** enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. **En cas d'ingestion,** appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.  
**Avis au médecin :** La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

**Moyens d'extinction :** Employer les moyens appropriés au feu ambiant.  
**Les risques d'incendie ou d'explosion :** Aucun  
**Précautions spéciales pour les pompiers :** Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

**Précautions, équipement de protection et procédures :** Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.  
**Méthodes et matériel :** Ecope de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

**Précautions relatives à la sûreté en matière de manutention :** Lire l'étiquette complet du produit avant d'utiliser ce produit antiparasitaire.  
**Conditions de sûreté en matière de stockage :** Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

**Valeurs limites d'exposition professionnelle ou biologiques :** Non attribuée  
**Contrôles d'ingénierie appropriés :** Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

**Mesures de protection individuelle :** Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

**État physique, apparence et odeur :** Blocs solide, couleur bleue, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.  
**Solubilité :** Négligeable (à l'eau) le pH : Sans objet  
**Densité relative :** 1,1 g/cc Viscosité : Sans objet  
**Volatilité (% du vol.) :** Sans objet Taux d'évaporation : Sans objet  
**Densité de vapeur :** Sans objet Pression de vapeur : Sans objet  
**Point d'ébullition :** Sans objet Point de congélation : Sans objet  
**Point d'éclair (ASTM D92) :** >190 °C Temp. d'auto-inflammation : Indéterminée  
**Temp. de décomposition :** Indéterminée Inflammabilité : Pas un solide inflammable  
**Limites d'explosion inférieure :** Sans objet, Limite supérieure : Sans objet  
**Coefficient de partage (n-octanol/eau) :** Sans objet

## Section 10 : Stabilité et Réactivité

**Réactivité :** Pas réactive, pas sensibles aux chocs ou aux décharges statiques  
**Stabilité chimique :** Stable Risque de réactions dangereuses : Aucune  
**Matériaux incompatibles :** Aucune Conditions à éviter : Aucune  
**Produits de décomposition dangereux :** Oxydes de carbone

## Section 11 : Données Toxicologiques

**Voies d'exposition probables :** Ingestion orale, absorption cutanée.  
**Symptômes de toxicité :** Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.  
**Effets sur les yeux :** Irritation bénigne et temporaire  
**Effets aigus - voie orale :** DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg  
**Effets aigus de l'inhalation :** CL<sub>50</sub> (rat, 4 heures) : 200 mg/Litre (extrapolé)  
**Effets aigus-voie dermique :** DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg  
**Irritation de la peau :** Non irritant  
**Sensibilisation de la peau :** Ne sensibilise pas la peau  
**Cancérogénicité :** Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Ventiler si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.  
**Classe de danger, groupe d'emballage, numéro ONU :** Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la *Loi sur les produits antiparasitaires*. L'étiquette de pesticide aux exigences diffèrent des critères de classification de danger et les renseignements requis par la *Loi sur les produits dangereux* sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la *Loi sur les produits antiparasitaires*.

## Section 16 : Autres informations

**Préparée par :** T. Schmit **Date :** 2 février 2015  
Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Nulle garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ❖

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** Maki® Mini Blocks with Bitrex®  
**Other identifier(s):** Registration No. 24020 Pest Control Products Act  
**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs.  
**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)  
**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin.  
Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Bromadiolone (CAS registry number 28772-56-7) ..... 0.005% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.  
**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.  
**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.  
**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Solid block, tan color, raw grain odor. Odor threshold not determined.  
**Solubility:** Negligible (in water) **pH:** Not applicable  
**Relative density:** 1.04 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >190 °C **Autoignition temp.:** Not determined  
**Decomposition temp.:** Not determined **Flammability:** Not a flammable solid  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 8.6 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation  
Bitrex® is a registered trademark of Macfarlan Smith. ☺

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Maki® Bloc Mini avec Bitrex®**  
Autres identificateur : No. d'Enr. 24020 Loi sur les produits antiparasitaires  
Restrictions d'utilisation : Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA  
Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi  
Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. Attention : Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clé.



## Section 3 : Composition / Information Sur les Ingrédients

Bromadiolone (no. d'enregistrement CAS 28772-56-7) ..... 0.005% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.

En cas de contact avec les yeux : Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles contactées au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

En cas de contact avec la peau ou les vêtements, enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. En cas d'ingestion, appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir si moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.

Avis au médecin : La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

Moyens d'extinction : Employer les moyens appropriés au feu ambiant.  
Les risques d'incendie ou d'explosion : Aucun  
Précautions spéciales pour les pompiers : Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

Précautions, équipement de protection et procédures : Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.  
Méthodes et matériel : Ecope de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

Précautions relatives à la sûreté en matière de manutention : Lire l'étiquette complet du produit avant d'utiliser ce produit antiparasitaire.  
Conditions de sûreté en matière de stockage : Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

Valeurs limites d'exposition professionnelle ou biologiques : Non attribuée  
Contrôles d'ingénierie appropriés : Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

Mesures de protection individuelle : Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistant aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

État physique, apparence et odeur : Blocs solides, couleur brun clair, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.  
Solubilité : Négligeable (à l'eau) le pH : Sans objet  
Densité relative : 1,04 g/cc Viscosité : Sans objet  
Volatilité (% du vol.) : Sans objet Taux d'évaporation : Sans objet  
Densité de vapeur : Sans objet Pression de vapeur : Sans objet  
Point d'ébullition : Sans objet Point de congélation : Sans objet  
Point d'éclair (ASTM D92) : >190 °C Temp. d'auto-inflammation : Indéterminée  
Temp. de décomposition : Indéterminée Inflammabilité : Pas un solide inflammable  
Limites d'explosion inférieure : Sans objet, Limite supérieure : Sans objet  
Coefficient de partage (n-octanol/eau) : Sans objet

## Section 10 : Stabilité et Réactivité

Réactivité : Pas réactive, pas sensibles aux chocs ou aux décharges statiques  
Stabilité chimique : Stable Risque de réactions dangereuses : Aucune  
Matériaux incompatibles : Aucune Conditions à éviter : Aucune  
Produits de décomposition dangereux : Oxydes de carbone

## Section 11 : Données Toxicologiques

Voies d'exposition probables : Ingestion orale, absorption cutanée.  
Symptômes de toxicité : Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.

Effets sur les yeux : Irritation bénigne et temporaire  
Effets aigus - voie orale : DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg  
Effets aigus de l'inhalation : CL<sub>50</sub> (rat, 4 heures) : 8.6 mg/litre (extrapolé)  
Effets aigus-voie dermique : DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg  
Irritation de la peau : Non irritant  
Sensibilisation de la peau : Ne sensibilise pas la peau  
Cancérogénicité : Aucune ingrédient identifiée comme cancérogène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enlèvement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vérifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.

Classe de danger, groupe d'emballage, numéro ONU : Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la Loi sur les produits antiparasitaires. L'étiquette de pesticide aux exigences diffèrent des critères de classification de danger et les renseignements requis par la Loi sur les produits dangereux sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la Loi sur les produits antiparasitaires.

## Section 16 : Autres informations

Préparée par : T. Schmit Date : 2 février 2015  
Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Nulle garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale.  
Bitrex® est une marque de Macfarlan Smith. :>

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** Maki® Bulk Rodenticide Pellets  
**Other identifier(s):** Registration No. 20258 *Pest Control Products Act*  
**Uses or restrictions:** Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs.

**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)

**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Bromadiolone (CAS registry number 28772-56-7) ..... 0.005% by weight

## Section 4: First Aid Measures

May be harmful or fatal if swallowed or absorbed through skin. May irritate eyes. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If swallowed:** For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**Note to physician:** Vitamin K<sub>1</sub> in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product is listed on the front panel of the label. If pet or livestock poisoning is suspected, immediately contact a veterinarian.

## Section 5: Firefighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special precautions for firefighters:** Use self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, protection equipment and procedures:** Wear protective equipment described in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide.  
**Conditions for safe storage:** Store product not in use in original, tightly sealed container in a cool, dry, secure location away from other chemicals and food or feed, and inaccessible to children and non-target animals.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits or biological limits:** Not established.  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product according to label instructions.

**Individual protection measures:** Wear long-sleeved shirt and long pants, shoes plus socks when handling this product. Wear chemical-resistant gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and hot water before reuse.

## Section 9: Physical and Chemical Properties

**Appearance:** Solid pellets, green color, raw grain odor. Odor threshold not determined.  
**Solubility:** Negligible (in water) **pH:** Not applicable  
**Relative density:** 1.27 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >190 °C **Autoignition temp.:** Not determined  
**Decomposition temp.:** Not determined **Flammability:** Not a flammable solid  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and hemorrhage.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 8.6 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds. To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

## Section 13: Disposal Considerations

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

## Section 14: Transport Information

This product is not regulated as a hazardous material, in any size package, for all modes of transportation within Canada.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

This product is registered as a pesticide with the Pest Management Regulatory Agency under the *Pest Control Products Act*. The pesticide label requirements differ from the classification criteria and hazard information required by the *Hazardous Products Act* on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation. ☼

# FICHE DE SÉCURITÉ

## Section 1 : Identification

Identificateur de produit : **Maki® Granulés Raticide en Vrac**

Autres identificateur : No. d'Enr. 20258 *Loi sur les produits antiparasitaires*

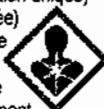
**Restrictions d'utilisation :** Usage réservé uniquement aux spécialistes accrédités de la lutte antiparasitaire, aux producteurs agricoles et aux personnes autorisées dans le cadre d'un programme de lutte antiparasitaire reconnu par l'administration publique.

Fabricante : Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209 USA

Téléphone d'urgence : 800-351-1476, 8h à 16h30 CST du lundi au vendredi  
Après les heures d'ouverture : Appeler CHEMTREC au 1-800-424-9300

## Section 2 : Identification des Dangers

Classe de danger : Toxicité pour certains organes cibles (Exposition unique)  
Catégorie 2, Toxicité pour certains organes cibles (Exposition répétée)  
Catégorie 2. **Attention :** Risque d'endommager le sang et de réduire la capacité de coagulation du sang si avalé, inhalé ou absorbé par la peau. Ne pas respirer les poussières. Ne pas manger, boire ou fumer en manipulant ce produit. Se laver les mains soigneusement après manipulation. En cas de exposition ou malaise, appeler un centre antipoison ou un médecin. Disposer de conteneur et le contenu conformément aux instructions sur étiquette du produit. Éliminer le contenu et le récipient conformément aux instructions sur étiquette du produit. Garder sous clef.



## Section 3 : Composition / Information Sur les Ingrédients

Bromadiolone (no. d'enregistrement CAS 28772-56-7) ..... 0.005% par le poids

## Section 4 : Premiers Soins

Peut être nocif ou fatal s'il est avalé ou absorbé par la peau. Peut irriter les yeux. Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'homologation lorsqu'on cherche à obtenir une aide médicale.

**En cas de contact avec les yeux :** Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

**En cas de contact avec la peau ou les vêtements,** enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement. **En cas d'ingestion,** appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Faire boire un verre d'eau à petites gorgées si la personne empoisonnée est capable d'avaler. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne rien administrer par la bouche à une personne inconsciente.

**Avis au médecin :** La vitamine K<sub>1</sub>, par injection intra-musculaire ou sous-cutanée ou par ingestion orale, est conseillée comme remède curatif pour l'empoisonnement par un anticoagulant. La gravité du cas mesurée par l'établissement du temps de prothrombine prolongé (P.T.) déterminera la thérapie appropriée. La surveillance du temps de prothrombine indiquera si des traitements répétés s'imposent. N'importe quel allergène contenu dans le produit est énuméré sur le comité de devant de l'étiquette. Prévenir immédiatement un vétérinaire lorsque l'empoisonnement d'un animal de compagnie ou d'élevage est soupçonné.

## Section 5 : Mesures en Cas d'Incendie

**Moyens d'extinction :** Employer les moyens appropriés au feu ambiant.

**Les risques d'incendie ou d'explosion :** Aucun

**Précautions spéciales pour les pompiers :** Portez l'appareil respiratoire autonome (masque complet) et des vêtements protecteurs complets. Contenez le ruissellement pour prévenir la pollution.

## Section 6 : Mesures de Déversement Accidentel

**Précautions, équipement de protection et procédures :** Portant de l'équipement de protection décrit dans la Section 8, isoler et contenir le déversement. Limiter l'accès à déversement zone de personnel nécessaire. Ne laissez pas matériau déversé à entrer dans les égouts, les cours d'eau ou d'autres eaux.

**Méthodes et matériel :** Ecope de matériau déversé et les placer dans un fermé, étiqueté conteneur pour utiliser selon les instructions sur l'étiquette ou l'élimination.

## Section 7 : Manutention et Stockage

**Précautions relatives à la sûreté en matière de manutention :** Lire l'étiquette complet du produit avant d'utiliser ce produit antiparasitaire.

**Conditions de sûreté en matière de stockage :** Entreposer dans le contenant d'origine fermé hermétiquement, dans un endroit froid et sec, à l'écart des autres produits chimiques et des aliments destinés à la consommation humaine ou animale, et dans un endroit inaccessible aux enfants et aux animaux non ciblés.

## Section 8 : Contrôle de l'Exposition/Protection Individuelle

**Valeurs limites d'exposition professionnelle ou biologiques :** Non attribuée  
**Contrôles d'ingénierie appropriés :** Ventilation spéciale n'est requise pour la manipulation et l'utilisation normales conformément à l'étiquette.

**Mesures de protection individuelle :** Porter un pantalon long, un vêtement à manches longues, des chaussettes et des chaussures lors de la manipulation du produit. Porter des gants résistants aux produits chimiques lors de la manipulation du produit et de l'élimination des rongeurs morts, des appâts inutilisés et des contenants vides. Éviter tout contact avec les yeux, la peau ou les vêtements. Se laver les mains avant de manger, de boire, de mâcher de la gomme, d'utiliser du tabac ou d'aller aux toilettes. Laver soigneusement la peau avec de l'eau et du savon après la manipulation. Laver les vêtements contaminés séparément du reste de la lessive, à l'eau chaude et au savon, avant de les porter à nouveau.

## Section 9 : Propriétés Physiques et Chimiques

**État physique, apparence et odeur :** Granulés solide, couleur vert, l'odeur de grain cru. Seuil de perception de l'odeur : Indéterminée.  
**Solubilité :** Négligeable (à l'eau) **le pH :** Sans objet  
**Densité relative :** 1,27 g/cc **Viscosité :** Sans objet  
**Volatilité (% du vol.) :** Sans objet **Taux d'évaporation :** Sans objet  
**Densité de vapeur :** Sans objet **Pression de vapeur :** Sans objet  
**Point d'ébullition :** Sans objet **Point de congélation :** Sans objet  
**Point d'éclair (ASTM D92) :** >190 °C. **Temp. d'auto-inflammation :** Indéterminée  
**Temp. de décomposition :** Indéterminée **Inflammabilité :** Pas un solide inflammable  
**Limites d'explosion inférieure :** Sans objet, **Limite supérieure :** Sans objet  
**Coefficient de partage (n-octanol/eau) :** Sans objet

## Section 10 : Stabilité et Réactivité

**Réactivité :** Pas réactive, pas sensibles aux chocs ou aux décharges statiques  
**Stabilité chimique :** Stable **Risque de réactions dangereuses :** Aucune  
**Matériaux incompatibles :** Aucune **Conditions à éviter :** Aucune  
**Produits de décomposition dangereux :** Oxydes de carbone

## Section 11 : Données Toxicologiques

**Voies d'exposition probables :** Ingestion orale, absorption cutanée.  
**Symptômes de toxicité :** Léthargie, perte d'appétit, réduit coagulation du sang, et hémorragie.

**Effets sur les yeux :** Irritation bénigne et temporaire  
**Effets aigus - voie orale :** DL<sub>50</sub> (v. orale, rat) : >5000 mg/kg  
**Effets aigus de l'inhalation :** CL<sub>50</sub> (rat, 4 heures) : 8.6 mg/Litre (extrapolé)  
**Effets aigus-voie dermique :** DL<sub>50</sub> (v. derm., lapin) : >2000 mg/kg  
**Irritation de la peau :** Non irritant  
**Sensibilisation de la peau :** Ne sensibilise pas la peau  
**Cancérogénicité :** Aucune ingrédient identifiée comme cancérigène

## Section 12 : Données Écologiques

Ce produit est toxique pour les poissons et les animaux sauvages. Garder hors des lacs, cours d'eau et étangs. Afin d'empêcher les oiseaux non-ciblés et les autres animaux d'avoir accès aux carcasses empoisonnées, les rongeurs morts doivent être enveloppés de façon sécuritaire et déposés dans des contenants fermés. Les porter au site d'enfouissement sanitaire provincial, si possible, ou au site municipal. Sinon, envelopper de façon sécuritaire les carcasses et les enterrer à une profondeur inaccessible aux charognards.

## Section 13 : Données sur l'Élimination

Ne pas réutiliser les contenants vides. Éliminer les appâts non utilisés ou gâtés, conformément aux exigences locales. Vérifier si un nettoyage supplémentaire du contenant avant son élimination est exigé en vertu de la réglementation provinciale. Rendre le contenant vide impropre à tout usage ultérieur. Éliminer le contenant conformément aux exigences provinciales. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial.

## Section 14 : Informations Relatives au Transport

Ce produit n'est pas réglementé comme matière dangereuse, de tout format, pour tous les modes de transport au Canada.

**Classe de danger, groupe d'emballage, numéro ONU :** Sans objet

## Section 15 : Informations sur la Réglementation

Ce produit est enregistré comme un pesticide avec l'Agence de réglementation de la lutte antiparasitaire en vertu de la *Loi sur les produits antiparasitaires*.

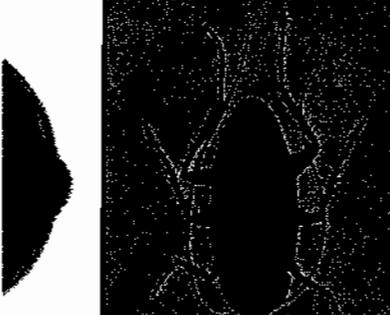
L'étiquette de pesticide aux exigences diffèrent des critères de classification de danger et les renseignements requis par la *Loi sur les produits dangereux* sur cette fiche de données de sécurité. Lire et suivre toutes les mises en garde, les indications et restrictions d'utilisation sur l'étiquette du produit sur le conteneur. L'emploi d'un tel produit dans des conditions dangereuses constitue une infraction à la *Loi sur les produits antiparasitaires*.

## Section 16 : Autres informations

**Préparée par :** T. Schmit **Date :** 2 février 2015  
Les renseignements de la présente Fiche de sécurité sont tenus pour exacts au moment de la publication. Aucune garantie, expresse ou tacite, n'est offerte à l'égard de ces renseignements. Ces données peuvent ne pas être appropriées à toutes les applications et l'utilisateur doit déterminer si elles sont appropriées en considération de la façon de faire, des conditions d'utilisation, de l'entreposage ou de la réglementation locale. ❖

**SINGLES IN A RESEALABLE BAG**

**Starts killing roaches in hours**  
**Child resistant bait stations**  
**Ideal for kitchen use**  
**No vapor, no fumes, no mess**  
**Kills roaches by contact or ingestion**  
**Virtually eliminates roaches**



**Maxforce**  
**FC ROACH KILLER**

**Bait Stations**

TRADE REGISTERED



# Maxforce<sup>®</sup>

## FC ROACH KILLER

### Bait Stations

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Wash thoroughly with soap and water after handling bait stations.

This product is specially designed for control of small cockroaches, such as German and Brown Banded roaches, in any area where they are a problem, such as residential, warehousing and commercial establishments, including food service, food manufacturing and food processing.

3. Use 4-6 bait stations per 100 sq. ft. of horizontal surface area. Place adjacent to voids or cracks and crevice, behind and under cupboards, and near locations where infested foodstuffs were discovered.
4. Bait stations can be stuck to a vertical surface by peeling off the protective strip to expose adhesive.
5. Do not place more than 24 bait stations per residence.

**IMPORTANT: READ BEFORE USE**



**Material Safety Data Sheet**

**MAXFORCE® FC SELECT PROFESSIONAL INSECT CONTROL® ROACH KILLER BAIT GEL**

MSDS Number: 102000005017  
 MSDS Version 2.1  
 Revision Date: 12/12/2007

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** MAXFORCE® FC SELECT PROFESSIONAL INSECT CONTROL® ROACH KILLER BAIT GEL  
**MSDS Number** 102000005017  
**EPA Registration No.** 432-1259

Bayer Environmental Science  
 2 T.W. Alexander Drive  
 Research Triangle PK, NC 27709  
 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-800-331-2867

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	0.01

**SECTION 3. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! Harmful if absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Keep exposed gel away from open food and food contact surfaces. Hazard to humans and domestic animals. Keep out of reach of children and animals.

**Physical State** gel  
**Odor** sweet  
**Appearance** dark brown  
**Routes of Exposure** Eye contact, Skin Absorption, Skin contact, Ingestion  
**Immediate Effects**  
**Eye** Moderate eye irritation may occur. Avoid contact with eyes.  
**Skin** Harmful if absorbed through skin. May be minimally irritating following prolonged direct contact. Avoid contact with skin and clothing.



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<b>Ingestion</b>	Do not take internally.
<b>Chronic or Delayed Long-Term</b>	This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.
<b>Medical Conditions Aggravated by Exposure</b>	No specific medical conditions are known which may be aggravated by exposure to this product.

**SECTION 4. FIRST AID MEASURES**

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Notes to Physician Treatment</b>	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Fire and Explosion Hazards</b>	Dangerous gases are evolved in the event of a fire.
<b>Suitable Extinguishing Media</b>	Dry chemical, Foam, Water, Carbon dioxide (CO2)



**Material Safety Data Sheet**

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**Fire Fighting Instructions**

Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods for Cleaning Up**

Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional Advice**

Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**SECTION 7. HANDLING AND STORAGE**

**Handling Procedures**

Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Product will stain porous surfaces.

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**Storing Procedures**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals.

**Work/Hygienic Procedures**

Keep away from food, drink and animal feedingstuffs.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection**

There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid contact with skin and eyes.

Follow all label instructions. Train employees in safe use of the product.



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MSDS Number: 102000005017  
MSDS Version 2.1

**Exposure Limits**

Fipronil Sucrose	120068-37-3 57-50-1	OES BCS*		0.035 mg/m3
		ACGIH	TWA	10 mg/m3
		NIOSH	REL	5 mg/m3
		Form of exposure		Respirable.
		NIOSH	REL	10 mg/m3
		Form of exposure		Total
		OSHA Z1	PEL	5 mg/m3
		Form of exposure		Respirable fraction.
		OSHA Z1	PEL	15 mg/m3
		Form of exposure		Total dust.
		OSHA Z1A	TWA	5 mg/m3
		Form of exposure		Respirable fraction.
		OSHA Z1A	TWA	15 mg/m3
		Form of exposure		Total dust.
US CA OEL	TWA PEL	5 mg/m3		
Form of exposure		Respirable fraction.		
US CA OEL	TWA PEL	10 mg/m3		
Form of exposure		Total dust.		

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	dark brown
<b>Physical State</b>	gel
<b>Odor</b>	sweet

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight. Exposure to moisture.
<b>Incompatibility</b>	Strong oxidizing agents Strong bases Strong acids
<b>Hazardous Decomposition Products</b>	Thermal decomposition Hydrogen fluoride (HF) Hydrogen chloride (HCl) Carbon oxides Nitrogen oxides (NOx)



**Material Safety Data Sheet**

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MSDS Number: 102000005017  
MSDS Version 2.1

Sulphur oxides

**Hazardous Reactions**      Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, fipronil. The non-acute information pertains to technical-grade active ingredient.

- Acute Oral Toxicity**              rat: LD50: > 5,000 mg/kg
- Acute Dermal Toxicity**        rat: LD50: > 5,000 mg/kg
- Skin Irritation**                rabbit: Slight irritation.
- Eye Irritation**                rabbit: Minimally irritating.
- Sensitization**                 guinea pig: Non-sensitizing.
- Chronic Toxicity**              Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.

**Assessment Carcinogenicity**

Fipronil has been classified by EPA as a Category C carcinogen based on thyroid tumors in rats only. These tumors are produced by a mechanism which is not relevant to human cancer. Fipronil did not produce an increase in tumor incidence in mice.

- ACGIH**  
None.
- NTP**  
None.
- IARC**  
None.
- OSHA**  
None.

- Reproductive & Developmental Toxicity**      **REPRODUCTION:** Fipronil was not considered a primary reproductive toxicant in rats.  
  
**DEVELOPMENTAL TOXICITY:** Fipronil was not a developmental toxicant in rats and rabbits.
- Neurotoxicity**                      Fipronil caused transient neurobehavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.
- Mutagenicity**                      Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.



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**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions** Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

**Container Disposal** Wrap and discard in trash. Follow advice on product label and/or leaflet.

**SECTION 14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:**  
Not Regulated for Transportation

**FREIGHT CLASSIFICATION:**  
Insecticides or Fungicides, N.O.I., other than poison

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-1259

**US Federal Regulations**

**TSCA list**  
None.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**  
None.

**SARA Title III - Section 302 - Notification and Information**  
None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**  
None.

**US States Regulatory Reporting**

**CA Prop65**

- This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.



**Material Safety Data Sheet**

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**US State Right-To-Know Ingredients**  
None.

**Canadian Regulations**  
**Canadian Domestic Substance List**  
None.

**Environmental**  
**CERCLA**  
None.  
**Clean Water Section 307 Priority Pollutants**  
None.  
**Safe Drinking Water Act Maximum Contaminant Levels**  
None.

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Reactivity - 0      Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated Section 11: Toxicological Information. Updated for general editorial purposes.

Revision Date: 12/12/2007

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

Prescription Treatment® brand

# ADVANCE® 360A

## Dual Choice® Ant Bait Stations

### KILLS THE QUEEN; KILLS THE COLONY

**FOR USE IN AND AROUND:** Apartments, Campgrounds, Food Storage Areas, Homes, Hospitals, Hotels, Meat Packing and Food Processing Plants, Motels, Nursing Homes, Resorts, Restaurants and other Food Handling Establishments, Schools, Supermarkets, Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, Planes), Utilities, Warehouses and other Commercial and Industrial Buildings

**EFFECTIVE AGAINST:** Argentine Ants, Cornfield Ants, Pharaoh Ants, and a Variety of Household Ants

This product contains a slow acting insect bait. For best results placement of the bait should be into or near insect harborage sites.

**ACTIVE INGREDIENT:**

Abamectin B, ..... 0.011%

**OTHER INGREDIENTS:** ..... 99.989%

TOTAL: 100.000%

EPA Reg. No. 499-496

**DO NOT ALLOW CHILDREN OR PETS TO PLAY WITH THE BAITS**

## CAUTION

### FIRST AID

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 min. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15 - 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call 1-800-832-HELP for emergency medical treatment information.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

### DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**ANTS:** Concentrate treatment at insect activity sites. Ants are attracted to the bait and it is carried back to the nest to kill the queen and destroy the colony. Bait is packaged in a child-resistant container.

1. Break bait stations apart from the plastic frame. To stick on vertical surfaces, remove peel and stick backing on reverse side of bait station.
2. For thorough ant control, use as many bait stations as necessary (normally 3 - 4 stations for an average size room or 6 - 8 stations for a heavy infestation).
3. For best results, also place bait stations along walls, baseboards, in corners, under sinks, in cabinets, pantries, near plumbing, electrical lines, potted plants, waste receptacles, sensitive electronic equipment, inside drop ceilings, wall voids, under and around equipment and appliances.
4. Replace bait stations when necessary, approx. every 3 mo.

**APPLICATIONS IN FOOD HANDLING ESTABLISHMENTS:** Food handling establishments include places other than private residences in which food is held, processed, prepared or served.

**FOOD AREAS:** Include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Avoid contamination of food. Use as instructed above.

**AIRCRAFT CABINS:** Place bait stations in suspected and active ant areas. Place bait stations in areas between elements of construction. Use up to 6 bait stations per galley and up to 3 bait stations per rest room. In cargo holds, use 6 - 12 bait stations per 100 ft<sup>2</sup>. Do not use bait stations in cockpit area.

### STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

**PESTICIDE DISPOSAL:** Waste resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. **If Empty:** Place in trash or offer for recycling if available. **If Partly Filled:** Call your local solid waste agency for disposal instructions.

Manufactured for:  
Whitmire Micro-Gen Research Laboratories, Inc.®  
3568 Tree Court Industrial Blvd.  
St. Louis MO 63122-6682  
Questions? Call 1-800-777-8570  
© 2009 Whitmire Micro-Gen  
Research Laboratories, Inc.®



The Chemical Company

# Hoja de Seguridad

## ADVANCE 360A DUAL CHOICE STA.

Fecha de revisión : 2012/10/08  
Versión: 3.5

Página: 1/8  
(30501542/SDS\_CPA\_US/ES)

### 1. Identificación del producto y empresa

Empresa

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Información 24 horas en caso de emergencias

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

Registrante:

Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis, MO 63122

Número de sustancia: 000000414191

### 2. Identificación de los peligros

Indicaciones - Urgencia

ATENCIÓN:  
MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS.  
MANTENGA FUERA DEL ALCANCE DE ANIMALES DOMESTICOS  
Peligroso si es absorbido a través de la piel.  
Irritación moderada de los ojos.  
Evitar el contacto con la piel, ojos y vestimenta.  
Lavar a fondo tras su manipulación.

Ver la etiqueta del producto para las medidas preventivas adicionales.

Estado de la materia: sólido  
Color: pardo claro  
Olor: característico

Posibles efectos en la salud

vías primarias de la exposición:

Las vías de entrada de sólidos y líquidos incluyen el contacto con ojos y piel, la ingestión y la inhalación. Las vías de entrada de gases incluyen la inhalación y el contacto con los ojos. El contacto con la piel puede ser una vía de entrada de gases licuados.

Toxicidad aguda:

Relativamente no tóxico después de un contacto cutáneo de corta duración. Relativamente no tóxico después de una sola ingesta.

Irritación/ Corrosión:

Puede causar una moderada pero temporal irritación de los ojos. Puede provocar ligeras irritaciones en la piel.

# Hoja de Seguridad

## ADVANCE 360A DUAL CHOICE STA.

Fecha de revisión : 2012/10/08  
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### Sensibilización:

No sensibilizante en piel según experimentación animal.

### Posibles efectos en el medio ambiente

### Toxicidad acuática:

Muy tóxico (efecto agudo) para los peces. Muy tóxico (efecto agudo) para invertebrados acuáticos. Toxicidad aguda para plantas acuáticas.

## 3. Composición / Información Sobre los Componentes

<u>Número CAS</u>	<u>Contenido (W/W)</u>	<u>Nombre químico</u>
71751-41-2	0.011 %	Avermectin B1
	<= 99.989 %	Peanut Butter
		Ingredientes propietario

## 4. Medidas de primeros auxilios

### Indicaciones generales:

La persona que auxilie debe desgastar el equipo protector personal para prevenir la exposición. Quitarse la ropa contaminada. Transferir a la persona al aire fresco. Si la persona no respira, llamar al 911 o una ambulancia, después administrar respiración artificial, preferiblemente respiración boca a boca si es posible. Llamar al departamento de toxicología o a un médico para consultar el tratamiento a seguir. Al llamar de urgencia a un Centro de Toxicología, a un médico o al seguir el tratamiento, es conveniente tener a disposición el envase o la etiqueta del producto.

### En caso de inhalación:

Llevar a la persona afectada al aire libre y dejarla reposar en calma.

### En caso de contacto con la piel:

Lavar con abundante agua la piel durante 15 a 20 minutos.

### En caso de contacto con los ojos:

Lavar abundantemente bajo agua corriente durante 15 a 20 minutos. En caso de llevar lentes de contacto, retirarlos transcurridos los primeros 5 minutos y continuar con el proceso de lavado.

### En caso de ingestión:

No provocar nunca el vómito o suministrar algo por la boca, cuando la persona afectada está inconsciente o padece convulsiones. No provocar vómito. Si la persona afectada está en condiciones de deglutir, permítale tomar lentamente sorbos de agua.

## 5. Medidas de lucha contra incendios

### Medios de extinción adecuados:

espuma, extintor de polvo, dióxido de carbono, agua pulverizada

### Peligro al luchar contra incendio:

monóxido de carbono, dióxido de carbono,

Si el producto se calienta por encima de la temperatura de descomposición, se liberarán vapores tóxicos. En caso de incendio las sustancias/grupos de sustancias citadas pueden desprenderse.

### Equipo de Protección personal en caso de fuego:

Utilizar traje de bombero completo y equipo de protección de respiración de autocontenido.

# Hoja de Seguridad

## ADVANCE 360A DUAL CHOICE STA.

Fecha de revisión : 2012/10/08  
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### Información adicional:

El personal no necesario debe ser evacuado del sector. Retener las aguas contaminadas, incluida el agua de extinción de incendios, caso de estar contaminada. Evitar que penetre en el alcantarillado o aguas superficiales.

## 6. Indicaciones en caso de fuga o derrame

### Medidas de protección para las personas:

Tomar medidas de protección adecuadas. Evacuar la zona. Cierre la fuente de la fuga únicamente en condiciones seguras. Extinguir las fuentes de ignición cercanas y en la dirección del viento. Procurar una ventilación apropiada. Lleve la indumentaria y el equipo de protección personal adecuados.

### Medidas de protección para el medio ambiente:

Evitar que el producto penetre en el suelo/subsuelo. Evitar que penetre en el alcantarillado, aguas superficiales o subterráneas. Retener las aguas contaminadas, incluida el agua de extinción de incendios, caso de estar contaminada. Un vertido o excedente de la cantidad susceptible de ser declarada requerirá una notificación a las autoridades de emergencia estatales, locales y nacionales. Este producto no está regulado por la CERCLA ('Superfund').

### Limpieza:

Cercar/retener con diques. Recoger con materiales absorbentes adecuados. Siempre que sea posible, la sustancia/producto vertidos se debe recuperar y aplicar conforme a las instrucciones de la etiqueta. Si la aplicación de la sustancia/producto vertidos no es posible, será necesario recoger, solidificar y colocar los vertidos en contenedores adecuados para su eliminación. Después de descontaminar, el área de derrame se puede lavar con agua. Recoja el agua de lavado para su eliminación adecuada.

## 7. Manipulación y almacenamiento

### Manipulación

#### Indicaciones generales:

RECOMENDACIONES PARA TRABAJADORES DE PLANTAS DE FABRICACIÓN, MEZCLAS COMERCIALES Y ENVASADO. TRABAJADORES Y APLICADORES DE PESTICIDAS deben consultar la Etiqueta del Producto y las Directrices de Uso que se encuentran junto al producto. Procurar buena ventilación de los locales; dado el caso, instalar aspiración localizada en el lugar de trabajo. Conservar alejado de toda llama o fuente de chispas - No fumar. Mantener los recipientes cerrados herméticamente. Proteger de los efectos del calor. Abrir y manipular cuidadosamente el recipiente. No abra hasta que esté listo para su uso. Consumir lo antes posible el contenido de envases dañados. Proporcione medios para controlar fugas y vertidos. Seguir las advertencias indicadas en la etiqueta, también con los envases vacíos. La sustancia/el producto sólo debe ser manipulado por personal especializado. Evitar todo contacto directo con la sustancia / producto. Evitar el contacto con la piel, ojos y vestimenta. Evite la inhalación de polvos/neblinas/vapores. Lleve la indumentaria y el equipo de protección personal adecuados.

#### Protección contra incendio/explosión:

Hay que observar las medidas de prevención pertinentes para la protección del incendio. Extintor accesible. Evitar todas las fuentes de ignición: calor, chispas, llama abierta. Evitar calor excesivo. Efectuar correctamente la toma de tierra de la totalidad del conjunto de la instalación para evitar la acumulación de cargas electrostáticas. Una descarga electrostática puede causar ignición

### Almacenamiento

#### Indicaciones generales:

Consérvese únicamente en el recipiente de origen, en lugar fresco y bien ventilado y lejos de fuente de ignición, calor o llama. Proteger los recipientes de daños físicos. Proteger contra la contaminación. Deben tenerse en consideración las legislaciones locales vigentes y la reglamentación sobre almacenamiento.

#### Incompatibilidad de almacenamiento:

Indicaciones generales: Separe de sustancias incompatibles Separar de alimentos, bebidas y alimentos para animales Separar de los productos textiles y otros materiales similares.

#### Estabilidad durante el almacenamiento:

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En un almacenaje correcto, el tiempo de conservación es ilimitado. Si se menciona la fecha de caducidad en el envase o etiqueta ésta tiene prioridad sobre el tiempo de almacenaje declarado en la Ficha de Datos de Seguridad.

### 8. Controles de exposición y protección personal

Usuarios de productos pesticidas deben observar en la etiqueta del producto los equipos requeridos para protección del personal.

#### Diseño de instalaciones técnicas:

Siempre que sea posible, se tendría de tomar medidas técnicas que minimicen las necesidades de equipamiento de protección personal.

#### Equipo de protección personal

#### RECOMENDACIONES PARA LOS TRABAJADORES EN LA FABRICACIÓN, MEZCLA COMERCIAL Y EMBALAJE:

##### Protección de las vías respiratorias:

Protección de las vías respiratorias en caso de ventilación insuficiente. Utilice un respirador para vapores orgánicos y de partículas certificado por NIOSH (Instituto Nacional de Salud y Seguridad Ocupacional) (o equivalente). En situaciones en las que las concentraciones de aire excedan el nivel en el que un respirador purificante de aire sea efectivo, o en las que los niveles son desconocidos o Inmediatamente Peligrosos para la Vida o la Salud (IDLH), debe utilizarse un aparato respiratorio autónomo (SCBA) a demanda que cubra toda la cara certificado por el NIOSH (Instituto Nacional de Salud y Seguridad Ocupacional) o un respirador de aire (SAR) a demanda que cubra toda la cara con válvula de escape.

##### Protección de las manos:

Guantes de protección resistentes a productos químicos. La selección del guante protector debe basarse en la evaluación de riesgos en el puesto de trabajo del usuario

##### Protección de los ojos:

Gafas protectoras con cubiertas laterales. Gafas de seguridad con cierre hermético (Gafas cesta). Usar pantalla facial, si existe riesgo de pulverización.

##### Protección corporal:

La protección corporal debe ser seleccionada dependiendo de la actividad y posible exposición. Ejemplo: Protección para la cabeza (casco), mandil, botas y ropa de protección química.

##### Medidas generales de protección y de higiene:

RECOMENDACIONES PARA LOS TRABAJADORES EN LA FABRICACIÓN, MEZCLA COMERCIAL Y EMBALAJE Adicionalmente al equipamiento de protección recomendado, se debería llevar camisa de manga larga y pantalón largo- El lugar de trabajo deberá proveer una ducha para el cuerpo de seguridad y un equipo para lavaje ocular. Manipular de acuerdo con las normas de seguridad para productos químicos. El equipo de protección personal debe ser descontaminado antes de su reutilización. Los guantes se deben controlar regularmente y antes de usarlos. Sustituir si necesario (p.ej. en caso de presentar pequeños agujeros). Quítense inmediatamente la ropa contaminada. Guardar por separado la ropa de trabajo. Lavarse las manos y/o cara antes de las pausas y al finalizar el trabajo. Durante el trabajo no comer, beber, fumar, inhalar. Manténgase lejos de alimentos, bebidas y piensos.

### 9. Propiedades físicas y químicas

Estado físico:	pasta	
Olor:	característico	
Color:	pardo claro	
Valor pH:		alcalino, Los datos corresponden a la sustancia activa.
Densidad:	0.96 g/cm <sup>3</sup>	( 20 °C)
Densidad de vapor:		no determinado
Coefficiente de reparto n-octanol/agua (log Pow):		no aplicable

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### 10. Estabilidad y reactividad

**Condiciones a evitar:**

Evitar todas las fuentes de ignición: calor, chispas, llama abierta. Evítese el almacenamiento prolongado. Evitar descarga electrostática. Evitar la contaminación. Evitar la exposición prolongada al calor extremo. Evite las temperaturas extremas.

**Sustancias a evitar:**

agentes cáusticos

**Reacciones peligrosas:**

El producto es químicamente estable.

**Productos de la descomposición:**

No se presentan productos peligrosos de descomposición, si se tienen en consideración las normas/indicaciones sobre almacenamiento y manipulación., En caso de un efecto térmico prolongado pueden desprenderse productos de descomposición.

**Descomposición térmica:**

Posibles productos de descomposición térmica:

monóxido de carbono, dióxido de carbono

A temperatura ambiente, el producto es estable. En caso de calentamiento por encima del punto de descomposición es posible la formación de vapores tóxicos. Para evitar descomposición térmica, no recalentar.

**Corrosión metal:**

No es de esperar un efecto corrosivo del metal.

### 11. Información sobre toxicología

**Toxicidad aguda**

**Oral:**

Tipo valor: DL50

Especies: rata

valor: > 5,000 mg/kg

**Dérmica:**

Tipo valor: DL50

Especies: conejo

valor: > 5,000 mg/kg

**Irritación/ Corrosión**

**piel:**

Especies: conejo

Resultado: no irritante

**ojo:**

Especies: conejo

Resultado: ligeramente irritante

**Sensibilización:**

Especies: cobaya

Resultado: No sensibilizante en piel según experimentación animal.

**Toxicidad genética**

*Indicaciones para: Abamectin technical*

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*Se dispone de resultados de análisis realizados sobre efectos mutagénicos en microorganismos, cultivo de células de mamíferos y en mamíferos. La totalidad de la información disponible no ofrece ninguna indicación de que la sustancia pueda tener efectos mutagénicos.*

### Carcinogenicidad

*Indicaciones para: Abamectin technical*

*En ensayos de larga duración realizados con ratas y ratones, en los cuales la sustancia se les suministró con la comida, no se pudo observar un efecto cancerígeno de la misma.*

### Toxicidad en la reproducción

*Indicaciones para: Abamectin technical*

*En experimentación animal, administrando elevadas dosis, se observaron efectos perjudiciales para el feto.*

### Desarrollo:

*Indicaciones para: Abamectin technical*

*En ensayos con animales, la sustancia presentó un efecto mutagénico, administrándola en elevadas dosis, que tenían un efecto tóxico en los mamíferos.*

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## 12. Información ecológica

### Peces

*Indicaciones para: Abamectin technical*

*Agudo:*

*Oncorhynchus mykiss/CL50 (96 h): 0.0036 mg/l*

### Invertebrados acuáticos

*Indicaciones para: Abamectin technical*

*Agudo:*

*Daphnia magna/CE50 (48 h): 0.00034 mg/l*

### Plantas acuáticas

*Indicaciones para: Abamectin technical*

*Toxicidad en plantas acuáticas:*

*Directiva 201 de la OCDE estático  
alga verde/CE50 (72 h): > 6.1 mg/l*

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## 13. Consideraciones relativas a la eliminación / disposición de residuos

### Eliminación de la sustancia (residuos):

Los residuos de pesticidas están regulados. Si los residuos de pesticida no se pueden eliminar conforme a las instrucciones de la etiqueta, póngase en contacto con la Autoridad Estatal sobre Pesticidas, la Agencia de Control Medioambiental o el representante de Residuos Peligrosos de la Oficina Regional de la EPA (Agencia de Protección del Medio Ambiente) más cercana.

### depósitos de envases:

Enjuague a fondo al menos tres veces (triple enjuague) conforme a las recomendaciones de la EPA (Agencia de Protección del Medio Ambiente). Consulte a las autoridades locales o estatales de eliminación de residuos

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sobre procedimientos alternativos aprobados, como el reciclaje de contenedores. Se recomienda el prensado, la perforación u otras medidas para prevenir el uso no autorizado de contenedores usados.

### 14. Información relativa al transporte

**Transporte por tierra**  
USDOT

Mercancía no peligrosa según los criterios de la reglamentación del transporte

**Transporte marítimo por barco**  
IMDG  
Mercancía no peligrosa según los criterios de la reglamentación del transporte

**Sea transport**  
IMDG  
Not classified as a dangerous good under transport regulations

**Transporte aéreo**  
IATA/ICAO  
Mercancía no peligrosa según los criterios de la reglamentación del transporte

**Air transport**  
IATA/ICAO  
Not classified as a dangerous good under transport regulations

### 15. Reglamentaciones

#### Reglamentaciones federales

**Situación del registro:**  
Producto químico TSCA, US no autorizado / no inscrito  
protección de cultivos TSCA, US libre / exento

**EPCRA 311/312 (categorías de peligro):** Agudo; Crónico

### 16. Otra información

**El número de registro de EPA se encuentra en la etiqueta del producto.**

Utilización adecuada: Insecticida

**NFPA Código de peligro:**  
Salud: 1 Fuego: 1 Reactividad: 1 Especial:

Respalamos las iniciativas Responsible Care® a nivel mundial. Valoramos la salud y seguridad de nuestros empleados, clientes, suministradores y vecinos, y la protección del medioambiente. Nuestro compromiso con el Responsible Care es integral llevando a cabo a nuestro negocio y operando nuestras fábricas de forma segura y medioambientalmente responsable, ayudando a nuestros clientes y suministradores a asegurar la manipulación segura y respetuosa con el medioambiente de nuestros productos, y minimizando el impacto de nuestras actividades en la sociedad y en el medioambiente durante la producción, almacenaje, transporte uso y eliminación de nuestros productos.

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**FDS creado por:**

BASF NA Producto Regularizado

msds@basf.com

FDS creado en: 2012/10/08

IMPORTANTE: MIENTRAS QUE LAS DESCRIPCIONES, LOS DISEÑOS, LOS DATOS Y LA INFORMACIÓN CONTENIDA ADJUNTO SE PRESENTAN EN LA BUENA FE, SE CREEN QUE PARA SER EXACTOS, SE PROPORCIONA SU DIRECCIÓN SOLAMENTE. PORQUE MUCHOS FACTORES PUEDEN AFECTAR EL PROCESO O APLICACIONES EN USO, RECOMENDAMOS QUE USTED HAGA PRUEBAS PARA DETERMINAR LAS CARACTERÍSTICAS DE UN PRODUCTO PARA SU PROPÓSITO PARTICULAR ANTES DEL USO. NO SE HACE NINGUNA CLASE DE GARANTÍA, EXPRESADA O IMPLICADA, INCLUYENDO GARANTÍAS MERCANTILES O PARA APTITUD DE UN PROPÓSITO PARTICULAR, CON RESPECTO A LOS PRODUCTOS DESCRITOS O LOS DISEÑOS, LOS DATOS O INFORMACIÓN DISPUESTOS, O QUE LOS PRODUCTOS, LOS DISEÑOS, LOS DATOS O LA INFORMACIÓN PUEDEN SER UTILIZADOS SIN LA INFRACCIÓN DE LOS DERECHOS DE OTROS. EN NINGÚN CASO LAS DESCRIPCIONES, INFORMACIÓN, LOS DATOS O LOS DISEÑOS PROPORCIONADOS SE CONSIDEREN UNA PARTE DE NUESTROS TÉRMINOS Y CONDICIONES DE LA VENTA. ADEMÁS, ENTIENDE Y CONVIENE QUE LAS DESCRIPCIONES, LOS DISEÑOS, LOS DATOS, Y LA INFORMACIÓN EQUIPADA POR NUESTRA COMPAÑÍA ABAJO DESCRITOS ASUME NINGUNA OBLIGACIÓN O RESPONSABILIDAD POR LA DESCRIPCIÓN, LOS DISEÑOS, LOS DATOS E INFORMACIÓN DADOS O LOS RESULTADOS OBTENIDOS, TODOS LOS QUE SON DADOS Y ACEPTADOS EN SU RIESGO.

Final de la Ficha de Datos de Seguridad

# MAXFORCE

## Fly Spot Bait



### ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N nitro-2 imidazolidinimine .....10.0%  
 Z-9-Tricosene .....0.1%

OTHER INGREDIENTS: .....89.9%

Total: .....100.00%

EPA Reg. No. 432-1455

EPA Est. No. 33967-NJ-1

**STOP - Read the label before use.  
 Keep out of reach of children.**

### CAUTION

#### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Note To Physician:** No specific antidote is available. Treat the patient symptomatically.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.

#### ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

QUESTIONS? COMMENTS? CALL 1-800-331-2867. See the Maxforce website at [www.Bayerprocentral.com](http://www.Bayerprocentral.com).

**NET CONTENTS: 6 X 1 LB or 50 X 2 OZ.**

## PRO FACTS

- Fast acting
- Contains a specially formulated mixture of attractants
- Controls house flies resistant to organophosphates, carbamates, and pyrethroid insecticides.

<b>MAXFORCE FLY SPOT BAIT</b>	<ul style="list-style-type: none"> <li>• A bait that is consumed by house flies</li> <li>• Easy to apply</li> <li>• Fast knockdown</li> <li>• Outdoor residual efficacy up to 14 days unless the bait is completely consumed prior.</li> <li>• In animal facilities and protected areas, residual efficacy can last up to 6 weeks unless the bait is completely consumed.</li> <li>• Contains the attractant muscalure</li> <li>• Contains 2 powerful attractants designed to lure house flies to their death</li> <li>• Contains Bitrex® bittering agent to help prevent ingestion by non-target animals, children and pets</li> </ul>
<b>WHERE TO APPLY</b>	<ul style="list-style-type: none"> <li>• In and around agricultural livestock production facilities, including but not limited to: poultry houses, turkey and chicken houses, cattle, sheep and goat facilities, feedlots, dairy barns, swine confinement buildings, dog kennels, and horse stables.</li> <li>• Around the outside of commercial and residential structures, or partly enclosed or protected areas</li> <li>• In non-food/feed areas of commercial facilities</li> </ul>
<b>HOW TO APPLY</b>	<ul style="list-style-type: none"> <li>• Mix in water and spray or paint on surfaces</li> </ul>
<b>COVERAGE</b>	<ul style="list-style-type: none"> <li>• Use 16 oz of product in 1 gallon of finished spray to treat fly-resting surfaces in buildings with 2,000 sq. ft. of floor space.</li> </ul>
<b>RE-APPLY</b>	<ul style="list-style-type: none"> <li>• Re-apply as needed, but not before 7 days.</li> </ul>
<b>QUESTIONS ??</b>	<ul style="list-style-type: none"> <li>• For questions or comments, call toll-free 1-800 843-1702 or visit us online at <a href="http://www.MAXFORCE.com">www.MAXFORCE.com</a></li> </ul>



### DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**IMPORTANT: Read entire label before using this product.**

#### General Information

This product is a bait formulated to control house flies in rural and urban environments, in animal confinement areas (e.g., cattle, poultry, swine), in commercial establishments, and outdoors in residential areas. The product can be used as a spray for treatment of surfaces, such as stable walls or waste containers, or it can be used as a paint-on application to walls and other surfaces such as pillars and compartment walls.

There is no need to spray the complete surface because this bait will attract pests to the treated area. Begin applications at the start of the season before fly populations have reached their peak.

Best results occur when the product is applied to many locations throughout the structure or facility. Spray the product on surfaces where house flies tend to rest. House flies prefer warm, still sites for resting, so avoid cool or windy locations.

Begin applications at the start of the season before fly populations have reached their peak.

#### Mixing Directions and Use Rates

NOTE: [Bracketed information is optional text.]

##### Mixing directions for 1 pound or larger

For spray applications, add 16 ounces of this product to one gallon of water and agitate until completely mixed. One gallon of finished spray will treat 1,000 square feet of fly-resting surfaces.

##### Mixing directions for 2 ounce packet or product size

[For spray applications, add the contents of one 2 ounce packet of this product to 1 pint of water and agitate until completely mixed. One pint of finished spray will treat 125 square feet of fly-resting surfaces.]

For paint-on applications, add 8 ounces of this product to 8 ounces of water (approximately 1 cup), and mix to desired consistency for best painting results. Apply this mixture in narrow bands up to 6 inches wide on suitable fly-resting surfaces. Do not apply this product at a rate exceeding 8 ounces for every 1,000 square feet of floor space.

#### Application equipment

For spray applications, apply as a coarse fan or cone spray. Apply

solution at a low pressure not to exceed 20 psi. Flush spray equipment with water to prevent clogging.

For paint-on applications, use a brush or roller paint applicator to apply solution to surfaces. Clean application and mixing equipment with water after application.

#### How and where to apply

FOR USE IN broiler houses, turkey houses, caged layer houses, feedlots, dairy barns, swine confinement buildings, horse stables, kennels, and other animal confinement facilities where house flies tend to be a nuisance or a health hazard.

##### Spray application

Spray diluted product where house flies aggregate: on walls, around windows, on surfaces of pillars and other structures, etc. For best results, apply product in spots of 3 to 12 sq. ft. where house flies tend to rest. If treating spots 10 sq. ft. in size, you can apply up to 50 such bait spots in a building with 1,000 sq. ft. of floor space without exceeding the limit of 8 ounces of product for a building of this size.

##### Paint on application.

For best results, paint the product in small bands up to 6 inches wide, or more, on places where house flies aggregate. Apply this product at a rate of 8 ounces for every 1,000 square feet of floor space.

Residual Efficacy in animal facilities.

Residual efficacy in animal facilities is dependent on the sanitary conditions and fly pressure level, as well as on the quality and cleanliness of the surfaces treated.

Apply as soon as fly pressure exceeds acceptable threshold levels to avoid population build up. Re-apply as needed, typically at 4 to 6 week intervals.

When spraying surfaces, care must be taken only to spray places out of reach of the animals. Do not spray directly on animals, feed and drinking supplies or on milking equipment. This also applies to empty pens due to be re-stocked within the next few weeks. Do not treat surfaces that people frequently contact. Avoid contact with sprayed surfaces until dry.

FOR USE IN OTHER AREAS such as non-food/non-feed areas of commercial food handling establishments, restaurants, and dining areas, residential backyards, on and around dumpsters and trash collection areas, storage facilities, dog kennels, zoos, animal rearing facilities, schools, hospitals, nursing homes, offices, marinas, and other locations where flies tend to aggregate and are a nuisance or a health hazard.

#### **Spray application**

Spray diluted product where house flies aggregate: on walls, around windows, on surfaces of dumpsters or trash collection bins, etc. For best results, apply product on spots of 3 to 12 sq. ft. where house flies tend to rest.

If treating spots 10 sq. ft. in size, you can apply up to 50 such bait spots in a building with 1,000 sq. ft. of floor space without exceeding the limit of 8 ounces of product for a building of this size.

#### **Paint-on applications**

For best results, paint the product in small bands up to 6 inches wide, or more, on places where house flies aggregate. Apply this product at a rate of 8 ounces for every 1,000 square feet of floor space.

#### **Food/Feed Handling Establishments**

Applications in food/feed handling establishments are permitted ONLY in non-food/non-feed areas. Non-food/non-feed areas include garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling).

Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food.

Serving areas, when food is exposed and the facility is in operation, are also considered food/feed areas. However, applications of this product may be made in serving areas ONLY while the facility is not in operation, and provided exposed food has been covered, or removed from the area being treated prior to application. These "spot" applications may cover no more than 2 sq. ft. per treated area, may not be spaced closer than 10 ft apart, and should be a minimum of 6-feet above floor level.

Contamination of food or food contact surfaces must be avoided. Do not apply this product to any food, food packaging, or any food contact surfaces.

Applications of this product may leave a visible residue or discolor some surfaces. Before treating, it is advisable to test application in a small inconspicuous area.

#### **Restrictions**

- Do not apply bait on surfaces accessible to children or pets.
- Do not apply bait in areas where food animals can ingest product.
- Do not allow bait to come in contact with food or water.
- Do not apply to milking equipment at dairy facilities.
- Do not apply inside food processing or manufacturing facilities.
- Do not apply in classrooms or patient rooms.

#### **For Best Results**

- Use the bait as part of an overall Integrated Pest Management program.
- Use proper sanitation and manure management.
- Use environmental controls, such as proper light management.
- Consult with cooperative extension service in your state for advice on fly management practices.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

#### **Storage :**

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original containers and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage.

#### **Pesticide Disposal:**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### **Container Disposal:**

Completely empty container. Dispose of container at an approved waste disposal facility or by incineration if allowed by state and local authorities. Do not use container in connection with food, feed, or drinking water. For less than one pound size wrap used container and place in trash can.

#### **Spills:**

If the container is leaking or material is spilled, carefully sweep up spilled bait and wash exposed area. In spill or leak incidents, keep unauthorized people away.

You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

#### **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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**Bayer Environmental Science**

A Business Group of Bayer CropScience LP

Bayer Environmental Science  
2 T. W. Alexander Drive  
Research Triangle Park, NC 27709  
www.bayerprocentral.com

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## NOTES

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

Trade name MAXFORCE® FLY SPOT BAIT

Product code (UVP) 80993730

SDS Number 102000027252

EPA Registration No. 432-1455

**Relevant identified uses of the substance or mixture and uses advised against**

Use Insecticide

Restrictions on use See product label for restrictions.

**Information on manufacturer**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency telephone no.**

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577 (24 hours/day)

Product Information Telephone Number 1-800-331-2867

SDS Information or Request [SDSINFO.BCS-NA@bayer.com](mailto:SDSINFO.BCS-NA@bayer.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other hazards**

No particular hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Imidacloprid	138261-41-3	10.00



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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	If large amounts are ingested, the following symptoms may occur: Dizziness, Abdominal pain, Nausea
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**Indication of any immediate medical attention and special treatment needed**

<b>Treatment</b>	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.
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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable</b>	High volume water jet

<b>Special hazards arising from the substance or mixture</b>	In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)
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**Advice for firefighters**

<b>Special protective equipment for fire-fighters</b>	In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.
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<b>Further information</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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Flash point	not applicable
Autoignition temperature	345 °C / 653 °F
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.



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**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	5ug/m3 (AN ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	50ug/m3 (ST ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	0.7 mg/m3 (TWA)		OES BCS*
Synthetic amorphous silica	112926-00-8	6 mg/m3 (REL)	2010	NIOSH
Synthetic amorphous silica	112926-00-8	6 mg/m3 (TWA)	1989	OSHA Z1A
Synthetic amorphous silica	112926-00-8	6 mg/m3 (TWA)	06 2008	TN OEL
Synthetic amorphous silica (Particulate.)	112926-00-8	2ug/m3 (AN ESL)	02 2013	TX ESL
Synthetic amorphous silica (Particulate.)	112926-00-8	27ug/m3 (ST ESL)	02 2013	TX ESL
Synthetic amorphous silica	112926-00-8	20millions of particles per cubic foot of air (TWA)	2000	Z3
Synthetic amorphous silica	112926-00-8	0.8 mg/m3 (TWA)	2000	Z3
Sucrose	57-50-1	10 mg/m3 (TWA)	02 2012	ACGIH
Sucrose (Respirable.)	57-50-1	5 mg/m3 (REL)	2010	NIOSH
Sucrose (Total)	57-50-1	10 mg/m3 (REL)	2010	NIOSH
Sucrose (Total dust.)	57-50-1	15 mg/m3 (PEL)	02 2006	OSHA Z1
Sucrose (Respirable fraction.)	57-50-1	5 mg/m3 (PEL)	02 2006	OSHA Z1
Sucrose (Respirable fraction.)	57-50-1	5 mg/m3 (TWA)	1989	OSHA Z1A
Sucrose (Total dust.)	57-50-1	15 mg/m3 (TWA)	1989	OSHA Z1A
Sucrose (Respirable fraction.)	57-50-1	5 mg/m3 (TWA)	06 2008	TN OEL
Sucrose (Total dust.)	57-50-1	15 mg/m3 (TWA)	06 2008	TN OEL
Sucrose	57-50-1	50ug/m3	02 2013	TX ESL



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(Particulate.)		(ST ESL)		
Sucrose (Particulate.)	57-50-1	5ug/m3 (AN ESL)	02 2013	TX ESL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to beige
<b>Physical State</b>	granular
<b>Odor</b>	weak characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	4.5 - 6.5 at 1 % (23 °C) (CIPAC D water (342ppm))
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Specific Gravity</b>	no data available
<b>Evaporation rate</b>	not applicable
<b>Boiling Point</b>	not applicable
<b>Melting / Freezing Point</b>	181 °C / 357.8 °F
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	> 420 °C , Heating rate: 0.5 K/min



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Partition coefficient: n-octanol/water	no data available
Viscosity	not applicable
Flash point	not applicable
Autoignition temperature	345 °C / 653 °F
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113
Other information	Further safety related physical-chemical data are not known.

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

Thermal decomposition	> 420 °C, Heating rate: 0.5 K/min
Self heating	not self-heating
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	no data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes	Ingestion, Skin contact, Eye contact
Immediate Effects Eye	May cause mild irritation to eyes.
Ingestion	Harmful if swallowed.
Information on toxicological effects	
Acute oral toxicity	LD 50 cut-off (rat) > 5,000 mg/kg



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<b>Acute inhalation toxicity</b>	ATE (rat) > 5 mg/l Exposure time: 4 h calculated ATE – acute toxicity estimate
<b>Acute dermal toxicity</b>	ATE (rat) > 5,000 mg/kg Calculation method ATE – acute toxicity estimate
<b>Skin irritation</b>	No skin irritation (rabbit)
<b>Eye irritation</b>	Minimally irritating. (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

**Assessment repeated dose toxicity**

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.

**Assessment developmental toxicity**

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

**Further information**

Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).



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**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity to fish</b>	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Water flea ( <i>Daphnia magna</i> )) 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imidacloprid.  EC10 ( <i>Chironomus riparius</i> (non-biting midge)) 2,09 µg/l Exposure time: 28 d The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to aquatic plants</b>	EC50 ( <i>Desmodesmus subspicatus</i> ) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient imidacloprid.
<b>Biodegradability</b>	Not applicable for this mixture.
<b>Bioaccumulation</b>	Not applicable for this mixture.
<b>Mobility in soil</b>	Not applicable for this mixture.
<b>Additional ecological information</b>	No other effects to be mentioned.
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Waste treatment methods</b>	
<b>Product</b>	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
<b>Contaminated packaging</b>	Do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

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**RCRA Information**

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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**SECTION 14: TRANSPORT INFORMATION**

**49CFR** Not dangerous goods / not hazardous material

**IMDG**

UN number 3077  
Class 9  
Packaging group III  
Marine pollutant YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(IMIDACLOPRID MIXTURE)

**IATA**

UN number 3077  
Class 9  
Packaging group III  
Environm. Hazardous Mark YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(IMIDACLOPRID MIXTURE )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

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**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 432-1455

**US Federal Regulations**

**TSCA list**

None.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

**US States Regulatory Reporting**

**CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause

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reproductive harm.

**US State Right-To-Know Ingredients**  
None.

**Canadian Regulations**  
**Canadian Domestic Substance List**  
None.

**Environmental**  
**CERCLA**  
None.  
**Clean Water Section 307 Priority Pollutants**  
None.  
**Safe Drinking Water Act Maximum Contaminant Levels**  
None.

**EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!  
**Hazard statements:** Harmful if swallowed.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

---

**SECTION 16: OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**

Health - 1      Flammability - 1      Instability - 0      Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** New Safety Data Sheet.

**Revision Date:** 08/15/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.



# Optigard<sup>®</sup>Ant

Gel bait

SYNGENTA

For indoor and outdoor control of structure-invading ants: exodung fire, harvester and Pharaoh ants.

### FOR USE IN COMMERCIAL, INDUSTRIAL AND RESIDENTIAL AREAS

Use sites include residential areas and institutional, warehousing and commercial establishments (including warehouses, restaurants, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, apartments, aircraft, buses, boats/ships, trains).



## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

Wash hands thoroughly with soap and water after handling bait cartridges (syringes).

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

#### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call  
1-800-888-8372

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is

### Active Ingredient:

Thiamethoxam (CAS No. 153719-23-4) . . . . . 0.010%

Other Ingredients: . . . . . 99.990%

Total: . . . . . 100.000%

## KEEP OUT OF REACH OF CHILDREN. CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in leaflet.

EPA Reg. No. 100-1260

EPA Est. 071681-IL-001<sup>ABF</sup> EPA Est. 54450-IL-001<sup>ABW</sup>

(Superscript is first three letters of batch code on container)

SCP 1260A-L1C 0910  
4026045

reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risk referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read entire label before using this product.

Do not treat areas that are easily accessible to children and pets.

*continued on back...*

## USE INFORMATION

**Optigard Ant Gel Bait is designed for the control of ants: excluding fire, harvester and Pharaoh ants.** Attractiveness of the bait to ants is enhanced by its high moisture retention properties and the bait will remain attractive for at least two weeks following bait deployment. This bait takes advantage of ant trophallaxis (regurgitation) allowing for transfer of active ingredient throughout the colony. Ants that feed on the gel will return to their nest and transfer the bait to the queen and their young, thereby killing the queen, the young and the entire colony. Dead ants should begin to appear within days after ants have begun feeding on the bait. Substantial reduction in ants foraging should be seen within a few days to a week.

For effective management of certain ant species such as Argentine ant, reduction of food sources (such as honeydew-producing insects like aphids) near entry points around the structure is critical. Long term control is most effectively obtained with a combination of methods for ant management.

## APPLICATION PROCEDURES

### Bait Application

Apply using the syringe applicator or a bait injector. Apply bait in cracks, crevices, corners and out-of-the-way places, such as under and behind kitchen appliances and baseboards, under sinks, around window and door frames, pipes and water heater and in the attic, crawl space and garage. Place multiple application spots of gel where ants are observed actively foraging or entering the structure. If the area to be treated has been recently treated with insecticide, thoroughly clean the area before applying this bait. Do not spray insecticide over gel as this may cause the bait to become repellent. Do not apply to areas that are routinely washed (such as countertops) as bait may be removed or diluted and spread onto the surface.

### Indoor Use

Visually inspect for the presence of ants and place this product in areas where ants are seen. Optimal locations for bait placement are the active points of entry and areas with potential high moisture including: wall voids, cracks and crevices in kitchens and bathrooms, under sinks, window sills and door frames, screen vents, attics, crawl spaces and garages. In areas of excessive foraging activity, place bait in several locations near the point of entry. Do not place bait in areas that are routinely washed, as washing will remove or dilute bait. Do not treat food preparation surfaces. During follow-up visits inspect placements and reapply as needed.

### Outdoor Use

Place bait on, into or adjacent to structures where ants are observed, adjacent to ant trails and to areas suspected of ant activity. Optimal locations for bait placement are points of entry into the structure and areas with potential periods of high moisture such as: soffits, eaves, weep holes, and where pipes and wires enter the structure. Exposure to direct sunlight, extreme heat or cold and water may reduce length of bait effectiveness. Bait may also be placed outdoors into refillable tamper-resistant bait stations. Close tamper-resistant stations securely after application. During follow-up visits inspect placements and reapply as needed.

### Food/Feed-Handling Establishments Use

Food/feed areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

***Application within food/feed areas of food/feed-handling establishments is limited to crack-and-crevice treatment only. If bait contacts an exposed surface where food is handled, remove bait and wash exposed surface with an effective cleaning compound followed by a potable water rinse prior to use.*** Apply directly into cracks and crevices with syringe applicator or bait injector. Place applicator tip into cracks, crevices, holes and other small openings where ants may travel and apply small amounts of bait per spot. Apply up to 1 gram of gel per spot. Apply bait between different elements of construction, between equipment and floors, openings into voids and hollow spaces in equipment bases and legs, walls, floors and ceilings, around plumbing pipes, doors and windows, cabinets, sinks, closets, stoves and other equipment. Specifically target places where ants may enter the structure. During follow-up visits inspect placements and reapply as needed.

Do not apply bait to areas where food/feed utensils or processing surfaces may become contaminated.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

**Pesticide Storage:** Store in original container in a cool, dry area, out of the reach of children and pets.

**Pesticide Disposal:** Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Place empty bait cartridges in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

Optigard®, the ALLIANCE FRAME  the SYNGENTA Logo and the PURPOSE ICON  are Trademarks of a Syngenta Group Company

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For non-emergency  
(e.g., current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P. O. Box 18300  
Greensboro, North Carolina 27419-8300

# Safety Data Sheet



## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015  
Replaces: 2/12/2015

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **OPTIGARD® ANT GEL BAIT**  
Product No.: A15236A  
Use: Insecticide  
Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419  
Manufacturer Phone: 1-800-334-9481  
Emergency Phone: 1-800-888-8372

### 2. HAZARDS IDENTIFICATION

Classifications: Not Applicable  
Signal Word (OSHA): Not Applicable  
Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other ingredients	Other ingredients	Trade Secret	99.99%
3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine	Thiamethoxam	153719-23-4	0.010%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-

## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015

Replaces: 2/12/2015

- 8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015  
Replaces: 2/12/2015

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Thiamethoxam	Not Established	Not Established	3 mg/m <sup>3</sup> TWA	Syngenta

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:**Ingestion:**

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Eye Contact:**

Where eye contact is likely, use dust-proof chemical goggles.

**Skin Contact:**

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

**Inhalation:**

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Colorless to clear solid

Odor: Odorless

Odor Threshold: Not Available

pH: 6.6 (1% in deionized H<sub>2</sub>O @ 77°F (25°C))

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Applicable

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Thiamethoxam 2 x 10<sup>-11</sup> mmHg @ 68°F (20°C)

Vapor Density: Not Available

Relative Density: 1.263 g/cm<sup>3</sup> @ 68°F (20°C)

Solubility (ies): Thiamethoxam 4.1 g/l @ 77°F (25°C)

Partition coefficient: n-octanol/water: Not Available

## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015  
Replaces: 2/12/2015

Autoignition Temperature: Not Available  
Decomposition Temperature: Not Available  
Viscosity: Not Available  
Other: None

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.  
Chemical stability: Stable under normal use and storage conditions.  
Possibility of hazardous reactions: Will not occur.  
Conditions to Avoid: None known.  
Incompatible materials: None known.  
Hazardous Decomposition Products: None known.

### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rabbit) :	> 5050 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 2.61 mg/l air - 4 hours
Eye Contact:	Minimally Irritating (Rabbit)	
Skin Contact:	Practically Non-Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

#### Reproductive/Developmental Effects

Thiamethoxam: Developmental: Not teratogenic in rats or rabbits.  
Reproductive: No effects on reproduction. Minor increase in a common testis effect in rats at high doses, which did not affect reproduction.

#### Chronic/Subchronic Toxicity Studies

Thiamethoxam: Subchronic: Liver effects occurred in rodents only at high dose levels. Not neurotoxic after high acute and subchronic exposure in rats.

#### Carcinogenicity

# Safety Data Sheet



## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015  
Replaces: 2/12/2015

Thiamethoxam: Classified as "not likely to be carcinogenic in humans" based on lifetime studies in mice and rats.

Chemical Name	NTP/IARC/OSHA Carcinogen
Other ingredients	No
3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine	No

### Other Toxicity Information

None

### Toxicity of Other Components

Other ingredients  
Not Applicable

### Target Organs

#### Active Ingredients

Thiamethoxam: Liver

#### Inert Ingredients

Other ingredients: Not Applicable

## 12. ECOLOGICAL INFORMATION

### Eco-Acute Toxicity

#### Thiamethoxam:

- Fish (Rainbow Trout) 96-hour LC50 > 100 ppm
- Bird (Mallard Duck) LD50 Oral 576 mg/kg
- Invertebrate (Daphnia Magna) 48-hour EC50 > 106 ppm
- Green Algae 4-day EC50 > 97 ppm

### Environmental Fate

#### Thiamethoxam:

The information presented here is for the active ingredient, thiamethoxam.  
Not persistent in soil. Stable in water. Moderate mobility in soil. Floats in water (after 24 h).

## 13. DISPOSAL CONSIDERATIONS

### Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

## 14. TRANSPORT INFORMATION

### DOT Classification

Ground Transport - NAFTA  
Not regulated

### Comments

Water Transport - International

# Safety Data Sheet



## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015  
Replaces: 2/12/2015

Not regulated.

Air Transport - International  
Not regulated.

### 15. REGULATORY INFORMATION

#### Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Keep out of reach of children.

#### EPA Registration Number(s):

100-1260

#### EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

#### CERCLA/SARA 304 Reportable Quantity (RQ):

None

#### RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

#### TSCA Status:

Exempt from TSCA, subject to FIFRA

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 1  
Flammability: 1  
Instability: 0

#### HMIS Hazard Ratings

Health: 1  
Flammability: 1  
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: A

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 12/7/2006

Revision Date: 6/29/2015

Replaces: 2/12/2015

Section(s) Revised: 2, 4, 11, 16

# Safety Data Sheet



## OPTIGARD® ANT GEL BAIT

Date: 6/29/2015

Replaces: 2/12/2015

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

# Vendetta

COCKROACH GEL BAIT

© 2004 Bayer HealthCare

- Advanced roach defense system
- For use in and around commercial, industrial, and residential buildings including apartments, garages, food storage areas, homes, hospitals and nursing homes, hotels, meat packing and food processing plants, motels, restaurants and other food handling establishments, schools, supermarkets, transportation equipment (buses, boats, ships, trains and aircraft), and warehouses
- For use in commercial, industrial and residential areas
- Relief from even severe roach infestations
- Effective and easy to use



<b>ACTIVE INGREDIENT:</b>	
Abamectin B1 .....	0.05%
OTHER INGREDIENTS .....	99.95%
	100.00%

KEEP OUT OF REACH OF CHILDREN  
**CAUTION PRECAUCIÓN**

TO THE USER: If you cannot read and understand English, do not use this product until the label has been fully explained to you.  
 PRECAUCIÓN AL USARIO: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.  
 See inside for first aid and precautionary statements.

For Household Use - In closets, basements, attics, recreation rooms, living areas, kitchens, bathrooms, dining rooms, pantries, food storage shelving, waste receptacles, etc.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**USE RESTRICTIONS & PRECAUTIONS:**

Do not apply to areas that are accessible to children.

If product is mistakenly applied to an area accessible to children, remove product and wash area thoroughly.

Do not apply to humans, animals, clothing, or bedding.

Do not contaminate feed or food products, or food preparation surfaces, dishes, kitchen utensils or food containers.

Do not use insecticide sprays on or near Vendetta® Cockroach Gel Bait.

Wash hands thoroughly after handling product.

**GENERAL USE DIRECTIONS:**

This product is for use only as a spot or crack and crevice treatment for the indoor control of Cockroaches in residential areas (only in areas inaccessible to children and pets) and both food/feed and non-food/non-feed areas of institutional, warehousing, and commercial establishments, including warehouses, restaurants, food processing plants, supermarkets, hospitals,

nursing homes, motels, hotels, schools, laboratories, computer facilities, buses, boats/ships, aircraft, trains, pet shops, and zoos.

Non-food/non-feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

Food/feed areas include areas for receiving, storage, packing (canning, bottling, wrapping, and boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, and syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

Vendetta Cockroach Gel Bait is for use in controlling Cockroaches indoors. The pre-filled plastic reservoir containing Vendetta Cockroach Gel Bait is intended for use with bait injector application devices common to the pest control industry. Inject into cracks and crevices, void spaces, and other locations where insects may harbor, live, and breed. Concentrate the bait placements as individual spots at insect activity sites (only in areas inaccessible to children and pets).

DO NOT APPLY ANY BAIT IN COCKPIT AREA

## DIRECTIONS FOR USE CONTINUED

**APPLICATIONS IN AIRCRAFT:** Application within passenger areas of aircraft is limited to Crack & Crevice treatment only. Apply Vendetta Cockroach Gel Bait in areas between elements of construction (such as areas under sinks, openings around pipes, under shelving, where shelving meets other shelves or the wall, areas between and around microwaves, where support braces attach to the main structure and where seats are attached to the floor). Use 12 to 24 bait placements per 100 sq. ft. Do not apply bait to areas where food utensils or food preparation surfaces may become contaminated. Care should be taken to avoid depositing gel onto exposed surfaces. If gel contacts an exposed surface, remove gel and wash exposed surfaces. During follow-up visits, inspect bait placements and re-apply when necessary.

Do not place bait in locations that are routinely washed, as bait will be removed by washing. Do not place treatments in locations where routine cleansing operations may transfer diluted bait to food or food preparation surfaces. Do not treat food preparation surfaces. Do not use this product in or on electrical equipment where a possibility of shock hazard exists. Avoid contact with textiles and clothing, as bait may stain.

Avoid placing gel on fabrics or carpets since it may stain some absorbent materials. To prevent staining, exposed bait should be cleaned up immediately with a damp cloth or sponge.

## APPLICATION RATES:

For light infestations of Cockroaches, 4 to 6 bait points are recommended per 100 square feet of treatment area. For heavy infestations of Cockroaches, 12 to 24 bait points are recommended per 100 square feet of treatment areas. Each bait point should equal about 0.25 to 0.50 grams of product. A spot approximately 3 mm. or 1/8 inch in diameter equals 0.25 grams of product, while a spot approximately 6 mm. or 1/4 inch in diameter equals 0.50 grams of product.

## TO APPLY GEL:

1. Remove the cap from the nozzle, touch the top to the surface to be treated, and push down on the plunger. Apply bait as spots in cracks and crevices. Recap the dispenser after treatment is completed.
2. Do not apply gel to areas that have been recently sprayed with insecticide, and do not spray insecticide over gel, as this may cause the bait to become repellent.
3. The bait will adhere to non-greasy or non-dusty surfaces and will remain pliable and palatable to roaches as long as it is visibly present.
4. A visual inspection of bait placements is recommended at one month after the initial treatment. Reapply when bait is no longer visibly present, according to the level of infestation. Replace bait before it is completely consumed to keep roaches returning.
5. Wash hands thoroughly with soap and water after handling bait.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

## PESTICIDE STORAGE:

Store in a cool, dry place. Always store pesticides in the original container. Store away from food and pet food.

## PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

## ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish and wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

## PHYSICAL OR CHEMICAL HAZARDS:

Do not apply this product around electrical equipment due to the possibility of shock hazard.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

## FIRST AID

### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.



EPA Reg. No. 1021-1828  
EPA Est. No. 1021-MN-2  
0114-0514



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8810 Tenth Avenue North, Minneapolis, MN 55427

2.5M-0514

## SAFETY DATA SHEET (GHS)



Date Issued : 7/11/2006  
 MSDS No : Vendetta™  
 Date-Revised : 7/16/2014  
 Revision No : 4

## Vendetta™ Cockroach Gel Bait

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Vendetta™ Cockroach Gel Bait  
**PRODUCT DESCRIPTION:** An Insecticide Formulation for Killing Cockroaches.  
**PRODUCT CODE:** 2822, EPA REG. NO. : 1021-1828  
**ACTIVE INGREDIENT(S):** Abamectin

**MANUFACTURER**

McLaughlin Gormley King Company  
 8810 10th Avenue North  
 Minneapolis, MN 55427

**Emergency Phone:** 1(888) 740-8712

**Alternate Emergency Phone:** 1(952) 852-9509

**Product Stewardship:** 1(800) 645-6466

**E-Mail:** mgk-sds@mgk.com

**24 HR. EMERGENCY TELEPHONE NUMBERS****FOR TRANSPORTATION:**

**CHEMTREC® U.S. and CANADA:** 1(800) 424-9300

**CHEMTREC® All Other Areas:** 1(703) 527-3887

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Acute Toxicity (Oral), Category 5

**Environmental:**

Acute Hazards to the Aquatic Environment, Category 1

**GHS LABEL**

Exclamation  
 mark  
 (GHS 07)



Environment  
 (GHS 09)

**SIGNAL WORD: WARNING****HAZARD STATEMENTS**

H303: May be harmful if swallowed.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P270: Do not eat, drink, or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Date Issued : 7/11/2006  
 MSDS No : Vendetta™  
 Date-Revised : 7/16/2014  
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## Vendetta™ Cockroach Gel Bait

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

P501: Dispose of contents/container to an approved waste disposal plant.

**COMMENTS:** This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Abamectin	0.05	71751-41-2

**COMMENTS:** Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** This product is NOT classified as flammable or combustible by OSHA.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide or dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Remove gel material from surface and place in a container for disposal.

**LARGE SPILL:** Scoop or shovel into containers for reuse.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

**HANDLING:** Take prudent precautions to avoid contact with eyes. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.

**STORAGE:** Store in a cool, dry place. Keep container closed. Always store pesticides in the original container. Store away from

## SAFETY DATA SHEET (GHS)



Date Issued : 7/11/2006  
 MSDS No : Vendetta™  
 Date-Revised : 7/16/2014  
 Revision No : 4

## Vendetta™ Cockroach Gel Bait

food and pet-food.

KEEP OUT OF REACH OF CHILDREN.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## EXPOSURE GUIDELINES

## OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

## EXPOSURE LIMITS

Chemical Name	TWA	OSHA PEL		ACGIH TLV		SupplierOEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Abamectin		None		None		[1]	0.02 [1]

## OSHA TABLE COMMENTS:

1. Recommended by manufacturer.

## PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes.

**SKIN:** Take prudent precautions to avoid contact with skin.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Gel.

**ODOR:** Sweet, corn oil odor.

**pH:** 5.9

**Notes:** @ 5% in water.

**VAPOR DENSITY:** Not Available.

**FREEZING POINT:** Not Applicable

**SOLUBILITY IN WATER:** Partially miscible in water.

**SPECIFIC GRAVITY:** Not Available

**VISCOSITY:** Not Determined

**(VOC):** 0 %

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.

## 11. TOXICOLOGICAL INFORMATION

## SAFETY DATA SHEET (GHS)



Date issued : 7/11/2006  
 MSDS No : Vendetta™  
 Date-Revised : 7/16/2014  
 Revision No : 4

## Vendetta™ Cockroach Gel Bait

## ACUTE

**DERMAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rabbit.

**ORAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rat.

**INHALATION LC<sub>50</sub>:** Not Applicable.

**EYE EFFECTS:** Irritation clearing within 72 hours.

**SKIN EFFECTS:** No irritation noted at 72 hours. Irritation Index = 0.30

**SENSITIZATION:** Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

**COMMENTS:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is toxic to fish and wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:**

**IF EMPTY:**

Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

**IF PARTLY FILLED:**

Call your local solid waste agency for disposal instructions. Never pour unused product down any indoor or outdoor drain.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Not Available

## 15. REGULATORY INFORMATION

## UNITED STATES

## SAFETY DATA SHEET (GHS)



Date Issued : 7/11/2006  
 MSDS No : Vendetta™  
 Date-Revised : 7/16/2014  
 Revision No : 4

## Vendetta™ Cockroach Gel Bait

## SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes

313 REPORTABLE INGREDIENTS: This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

## 302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

## REGULATIONS

## STATE REGULATIONS:

## VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains no VOC's (0%).

## FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

NOTE: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

CAUTION. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing.

PHYSICAL OR CHEMICAL HAZARDS: Do not apply this product around electrical equipment due to the possibility of shock hazard.

## 16. OTHER INFORMATION

REVISION SUMMARY: This MSDS replaces the 12/2/2011 MSDS. Revised: **Section 2: EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS - EYES.** **Section 4: CHRONIC EFFECTS.** **Section 15: FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT), STATE REGULATIONS, CALIFORNIA PROPOSITION 65.**

## HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

COMMENTS: The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be

## SAFETY DATA SHEET (GHS)



Date Issued : 7/11/2006  
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### Vendetta™ Cockroach Gel Bait

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taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

MSDS Prepared by T. Azzivitto

# FIRST STRIKE

## SOFT BAIT

FOR INDOOR AND OUTDOOR USE  
 KILLS NORWAY RATS, ROOF RATS, HOUSE MICE  
 AND WAPARIN RESISTANT HOUSE MICE  
 NORWAY RATS AND HOUSE MICE MAY CONSUME  
 A LEWEL DOSE IN ONE NIGHT'S FEEDING  
 WITH FIRST DEAD RODENTS APPEARING  
 FOUR OR FIVE DAYS AFTER FEEDING BEGINS

Active Ingredient: difethialone ..... 0.0025%  
 Inert Ingredients ..... 99.9975%  
 Total ..... 100.0000%

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION** See side panel for additional precautionary statements.

**LIPHATECH**  
 Liphatech, Inc.  
 3600 W. Elm Street  
 Milwaukee, WI 53209  
 (800) 351-1476

### PRECAUTIONARY STATEMENTS

**Hazard to Humans and Domestic Animals**  
**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Keep away from children, domestic animals and pets. All handlers (including applicators) must wear long-sleeved shirt, long pants, shoes, socks, and waterproof gloves. Any person who relieves carcasses or unused bait following application of this product must wear waterproof gloves.

**User Safety Requirements:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

**FIRST AID:** Have this label with you when obtaining treatment advice.  
**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.  
**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.

**TREATMENT FOR PET POISONING:** If animal eats bait, call veterinarian at once.  
**NOTE TO PHYSICIAN OR VETERINARIAN:** Contains the anticoagulant difethialone. If swallowed, this material may reduce the clotting ability of blood and cause bleeding. For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K1 intramuscularly or orally. Also for pets, if needed, check prothrombin time every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

**ENVIRONMENTAL HAZARDS:** This product is extremely toxic to mammals and birds. Dogs, cats and other predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply directly to water, or to areas where surface water is present. Do not allow equipment to mean high water mark. Do not contaminate waterways with disposing of equipment wash water or rinsate.

### STORAGE AND DISPOSAL

Do not contaminate waterways, food crops, or other areas with storage or disposal of this product. Store in original container in a cool, dry, place inaccessible to children and pets.  
**Pesticide Disposal:** Weighing resulting from use of this product may be disposed of in trash or at an approved waste disposal facility.  
**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty container, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material; when such use and/or handling is contrary to label instructions.

EPA Reg. No. 7173-258  
 EPA Est. No. 7173-WI-1

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ THIS LABEL** and follow all use directions and precautions. Use only for the sites, pests, and application methods described on this label. **IMPORTANT:** Do not expose children, pets or other nontarget animals to rodenticides. To help prevent accidents:

1. Store product not in use in a location out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals, and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from stations when they are lifted, units must be secured or otherwise immobilized. Even storage bait stations are needed in areas open to hauled livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container, unused, spoiled, and unconsumed bait as specified on this label.

**Note:** Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used if children, pets, or nontarget mammals or birds may access the bait.

**USE RESTRICTIONS:** This product can only be used to control Norway rats, roof rats and house mice in areas up to 100 feet of perimeter in structures. Do not use in a manner so as to be vulnerable to commensal rodent invasion and/or to attract rodents or other pest infestations. Examples of such structures include homes, schools, permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft), docks and port or terminal buildings, and related structures around and associated with these sites. **Perimeter baiting** beyond 100 feet from a structure, as defined above, is not allowed. Do not use this product in individual containers holding less than 16 pounds of bait. Do not place near or inside ventilation duct openings. Do not use in areas where water, food, feedstuffs, food or feed handling equipment, or milk or meat processing equipment. Do not apply directly to food or feed crops. Do not broadcast bait. Burrow baiting with this product is prohibited.

**Selection of Treatment Areas:** Determine areas where rats and/or house mice will most likely find and consume bait. Generally, these are along walls, by grained openings, in corners and concealed places, between floors or walls, beside burrows, or in locations where rats and/or house mice or their signs have been observed. Remove as much alternative food as possible.

**APPLICATION DIRECTIONS:** Each pouch contains 0.35 oz. (10g). **House Mice:** Apply 1 pouch per placement, usually spaced 8 to 12 feet apart. Up to 4 pouches may be needed at points of very high house mouse activity. Maintain a constant supply of fresh bait for 15 days or until signs of house mouse activity cease.

**Rats:** Apply 9 to 42 pouches per placement, usually spaced 15 to 30 feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

Bait may be removed from pouch and placed in a feeding device that secures the unwrapped bait in a bait station. Discard empty wrapper in the trash.

**Follow-up:** Replace contaminated or spoiled bait immediately. Wearing waterproof gloves, collect and dispose of all visible dead animals and leftover bait, as well as any bait that has become accessible to non-target animals. To discourage reinfestation, limit sources of rodent food, water and harborage as much as possible. If reinfestation does occur, repeat treatment. For a continuous infestation, set up permanent bait stations and replenish bait as needed.

(02/14/1)

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** FirstStrike® Soft Bait  
**Other identifier(s):** EPA Registration Number 7173-258  
**Uses or restrictions:** Rodenticide with difethialone

**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209

**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)

**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethialone (CAS registry no. 104653-34-1) ..... 0.0025%

## Section 4: First Aid Measures

**Emergency overview:** This material may reduce the clotting ability of the blood and cause bleeding. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding. Have the product label with you when obtaining treatment advice.

**If swallowed:** Call a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

**If inhaled:** Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration and call poison control or doctor.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor.

**Note to Physician or Veterinarian:** Contains anticoagulant ingredient. For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K<sub>1</sub> intramuscularly or orally. In severe cases, blood transfusions may be needed.

## Section 5: Fire-fighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special cautions for firefighters:** Wear self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, PPE and Procedures:** Wearing PPE as specified in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide. **Conditions for safe storage:** Store in original container in a cool, dry area out of reach of children, pets and domestic animals. Do not contaminate water, food or feed. Keep container tightly closed. Do not remove or destroy the product label.

## Section 8: Exposure Controls / Personal Protection

**Established exposure limits:** Not applicable  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product when following label instructions.

**Individual protection measures:** Wear long-sleeved shirt, long pants, shoes, socks and waterproof gloves when handling this product. Follow manufacturer's instructions for cleaning/maintaining PPE, or else wash with detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. Wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

## Section 9: Physical and Chemical Properties

**Appearance:** Soft paste, blue color, raw grain odor. Odor threshold not determined.

<b>Water solubility:</b> Negligible	<b>pH:</b> Not applicable
<b>Relative density:</b> 1.11 g/cc	<b>Viscosity:</b> Not applicable
<b>% Volatile (volume):</b> Not applicable	<b>Evaporation rate:</b> Not applicable
<b>Vapor density:</b> Not applicable	<b>Vapor pressure:</b> Not applicable
<b>Boiling point:</b> Not determined	<b>Freezing point:</b> Not applicable
<b>Flash point (ASTM D92):</b> >150 °C	<b>Autoignition temp.:</b> Not determined
<b>Flammability:</b> Not a flammable solid	<b>Decomposition temp.:</b> Not determined
<b>Explosive limits - Lower limit:</b> Not applicable; Upper limit: Not applicable	
<b>Partition coefficient (n-octanol/water):</b> Not applicable	

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.

<b>Eye effects/eye irritation:</b>	Mild, transient irritant
<b>Acute oral effects:</b>	LD <sub>50</sub> (oral-rat): >5000 mg/kg
<b>Acute inhalation effects:</b>	LC <sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)
<b>Acute dermal effects:</b>	LD <sub>50</sub> (dermal-rabbit): >2000 mg/kg
<b>Skin irritation:</b>	Non-irritating
<b>Skin sensitization:</b>	Not a skin sensitizer
<b>Carcinogenicity:</b>	No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is extremely toxic to birds and mammals. Do not apply this product directly to water, where surface water is present or to intertidal areas below the mean high water mark. Carefully follow label cautions and directions to reduce hazards to children, pets and non-target wildlife.

## Section 13: Disposal Considerations

**Disposal:** Wastes resulting from the use of this product according to the label instructions must be disposed of as specified on the product label.  
**RCRA waste status:** This product is not regulated as a hazardous waste under Federal law. State and local regulation may affect the disposal of this product. Consult your state or local environmental agency for disposal of waste generated other than by use according to label instructions.

## Section 14: Transport Information

**Transportation data (49 CFR):** This product is not regulated as a hazardous material for all modes of transportation within the U.S.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

**TSCA:** All components of this product are listed on the TSCA inventory.  
**SARA section 313:** Contains no reportable components.  
**CA Proposition 65:** Contains no substances subject to Prop 65 requirements.  
**FIFRA:** This product is registered as a pesticide with the U.S. Environmental Protection Agency. The label requirements under Federal pesticide law differ from the classification criteria and hazard information required by OSHA on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container.

## Section 16: Other Information

**Prepared by:** T. Schmit **Date:** 2 February 2015  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation.

# NYGUARD EZ1

IGR CONCENTRATE

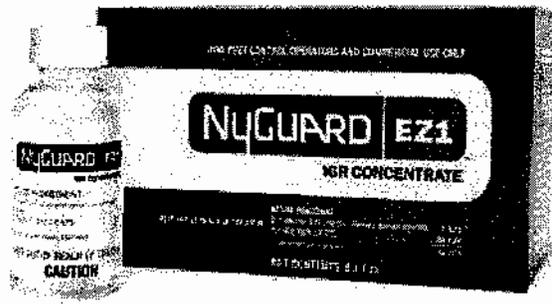
Specimen Label

## NyGuard® EZ1 IGR Concentrate

Emulsifiable concentrate with Insect Growth Regulator for control of Fleas, Stored Product Pests, listed Roaches, Crickets, Litter Beetles and Flying Insects

For use in the home and in food and non-food areas of restaurants, food processing plants, food and non-food warehouses, grocery stores and supermarkets, schools, office buildings, apartments, hotels and motels, hospitals, tobacco plants and warehouses, manufacturing plants, commercial and industrial buildings, transportation equipment (automobiles, boxcars, buses, boats, trucks, railcars, ship cargo holds), and outside on lawns and building perimeters.

- Inhibits reinfestation by fleas for up to 7 months
- NyGuard® EZ1 IGR Concentrate keeps working on listed cockroaches for 6 months
- Continuous protection against stored product pests for 3 months
- Reduces egg production in House Flies and prevents development of larvae (maggots) into adults
- Labeled for use in food areas of food handling establishments



<b>ACTIVE INGREDIENT:</b>	
2-[1-Methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine.....	1.30%
* OTHER INGREDIENTS .....	98.70%
	100.00%
*Contains petroleum distillates	

KEEP OUT OF REACH OF CHILDREN  
**CAUTION PRECAUCIÓN**  
 See inside for first aid and precautionary statements.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**NOTE:** When used in hospital rooms, convalescent hospital rooms, and nursing home rooms, patients should be removed prior to treatment. Ventilate treated rooms thoroughly for two (2) hours after treatment. Do not return patients to treated room until after ventilation.

**READ ALL DIRECTIONS COMPLETELY BEFORE USE**  
 Follow directions for specific use areas. Do not wet carpet, draperies and furniture excessively. Always test in an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

For use in areas such as:

Animal Quarters (enclosed premise treatment)	Carpets	Dens	Furniture	Lanais	Parks	Rooms	Transportation Equipment (Automobiles, Buses, Boats, Trucks, Trailers, Ship Cargo Holds)
Apartments	Cat Living [Sleeping] Quarters (enclosed premise treatment)	Dog Houses	Garages	Lawns	Patios	Rugs	Tree Houses
Atriums	Cereal Processing Facilities	Dog Kennel Runs	Garbage Areas	Living Rooms	Pet Bedding	Schools	Upholstered Furniture
Attics	Chests	Dog Living [Sleeping] Quarters	Garbage Cans	Locker Rooms	Pet Carriers	Ships	Utility Room
Automobiles	Closed Porches	Dormitories	Gas Stations	Mass Merchandising Stores	Pet Grooming Parlors	Shutters	Indoor
Bakeries	Closets	Draperies	Gazebos	Mausoleums	Pet Quarters (enclosed premise treatment)	Side Yards	Outdoor
Basements	Clothes Storage	Dressers	Grain Storage Facilities	Mess Halls	Pet Sleeping Areas	Solariums	Vending Machines
Bathrooms	Commercial Buildings	Drive-ins	Grocery Stores	Mobile Canteens	Pet Stores	Sports Stadiums	Verandas
Bedrooms	Condominiums	Drugstores	Homes	Mobile Homes	Play Houses	Storage Areas	Veterinary Clinics and Hospitals
Boats	Convenience Stores	Fabric Storage Areas	Hospitals	Morgues	Play Rooms	Sun Porches	Warehouses
Breweries	Crawl Spaces	Factories	Hotels	Mortuaries	Porches	Sun Rooms	Washrooms
Buses	Crematoriums	Floors	Indoor Eating Establishments	Motels	Prisons	Supermarkets	Zoos
Cabinets	Day Care Centers	Flour Mills	Industrial Plants	Nursing Homes	Recreation Vehicles	Taverns	
Cabins	Decks	Food and Non-food Warehouses	Institutional Dining Areas	Office Buildings	Recreational Areas Indoors	Theaters	
Cafeterias	Delicatessens	Food Processing Plants	Institutions	Other Public Buildings	Recreational Areas Outdoors	Tobacco Plants and Warehouses	
Campers		Funeral Parlors	Jails	Outdoor Eating Establishments	Restaurants	Town Houses	
Campsites			Kennels	Pantries		Trainers	
Candy Plants			Kitchens			Trains	
Canneries							

**FOR FLEA CONTROL:**

Flea eggs deposited on treated areas will not develop into adult fleas. Flea larvae crawling onto treated surfaces will also not develop into adult fleas. NyGuard® EZ1 IGR Concentrate eliminates the flea population when used as directed. NyGuard® EZ1 IGR Concentrate causes a gradual reduction and ultimate elimination of the flea population by breaking the reproductive cycle. NyGuard® EZ1 IGR Concentrate stops the flea life cycle and inhibits the development of the immature stages of the flea eggs and larvae for 7 months preventing them from reaching the biting adult stage. Existing adult fleas and flea pupae are not affected.

If a high population of adult fleas is present, the use of an adulticide may be necessary for immediate control. NyGuard® EZ1 IGR Concentrate may also be combined with a flea adulticide. NyGuard® EZ1 IGR Concentrate complements the rapid activity of the adulticide by providing long term control of preadult fleas eggs and larvae before they mature and become biting adults.

Flea control on pets is important in the prevention of the introduction of adult fleas. Pets, their bedding and the areas they frequent should also be treated with EPA registered flea and tick control products, such as flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick shampoo, as part of a complete flea control program in conjunction with this application to minimize the introduction of adult fleas.

NyGuard® EZ1 IGR Concentrate can be used prior to the flea season. Application of this product in areas where pets and other animals are known to frequent and where previous infestations have been known to occur will prevent the emergence of adult fleas and also control immature stages of fleas. This early usage could reduce the need for conventional insecticides when used alone as directed. Pretreatment of these areas before the fleas become biting and reproductive adults will aid in reducing developing populations.

Flea control	Treatment	Spray solution preparation	Coverage per unit area	Comments
Indoor Flea control	General surface application (including broadcast, spot and crack & crevice)	1 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of water	1 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per gallon per 1,500 sq. ft.	Use in conjunction with an adulticide to provide immediate control of adult fleas and flea pupae.
	In conjunction with carpet shampoo	1 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of shampoo dilution	1 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per volume of diluted shampoo to treat 1,500 sq. ft.	
In kennels and doghouses	General surface application (including broadcast, spot and crack & crevice)	1 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of water	1 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per gallon of water per 1,500 sq. ft.	Treat animals with an EPA registered flea control product.
Outdoor Flea control	General surface application (including broadcast, spot and crack & crevice)	1 fl. oz. NyGuard® EZ1 IGR Concentrate in a sufficient volume of water to achieve thorough coverage	1 fl. oz. NyGuard® EZ1 IGR Concentrate diluted in sufficient volume of water per 1,000 sq. ft.	Reapply exterior applications every 21 days.

**INDOOR FLEA CONTROL:**

Prior to treatment, carpets, draperies and upholstered furniture should be vacuumed thoroughly and the vacuum cleaner bag disposed of in an outdoor trash receptacle. Remove pets from area to be treated. After treatment, do not allow children and pets into treated areas until spray has dried.

**INSTRUCTIONS FOR USE:** NyGuard® EZ1 IGR Concentrate is mixed with water and applied with spray equipment such as any low pressure sprayer typically used for indoor applications.

**SPRAY PREPARATION:** Prepare a diluted spray solution by adding 1 fluid ounce of NyGuard® EZ1 IGR Concentrate per gallon of water. Partially fill the mixing container with water, add NyGuard® EZ1 IGR Concentrate, agitate and fill to final volume. Mix before each use.

**IN CONJUNCTION WITH AN ADULTICIDE INSECTICIDE:** NyGuard® EZ1 IGR Concentrate can be mixed with other pesticides registered for adult control of fleas in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. The combination would provide immediate control of adult fleas and inhibit the development of the immature stages of the flea eggs and larvae for 7 months. Use NyGuard® EZ1 IGR Concentrate at application rates specified above.

**GENERAL SURFACE APPLICATION:** Apply NyGuard® EZ1 IGR Concentrate diluted spray at the rate of 1 gallon per 1,500 square feet of surface area. Treat all areas that may harbor fleas, such as carpets, furniture, pet sleeping areas and throw rugs. Treat under cushions of upholstered furniture. Do not allow children or pets to contact treated surfaces until spray has dried.

**IN CONJUNCTION WITH CARPET SHAMPOO:** NyGuard® EZ1 IGR Concentrate may be combined with a liquid, non-heat extracting carpet shampoo application. Following dilution instructions on carpet shampoo, add 1 fluid ounce of NyGuard® EZ1 IGR Concentrate per gallon of diluted shampoo to be applied to carpet. Mix well and shampoo carpet as per instructions on the shampoo product label using approximately one gallon of diluted shampoo to treat 1,500 sq. ft. Allow carpet to completely dry and vacuum thoroughly.

**IN KENNELS AND DOGHOUSES:** Treatment of these areas will stop the development of preadult fleas from becoming biting and reproductive adult fleas. Using an adjustable hose-end sprayer, tank type sprayer or sprinkling can, prepare a diluted spray solution by adding 1 fluid ounce per gallon of water. Partially fill the sprayer with water, add required amount of concentrate in sprayer, agitate and fill to final volume. Agitate before each spray.

Apply at a rate of 1 gallon diluted solution per 1,500 square feet of surface area. Apply to resting areas, walls, floor, animal bedding and run areas. Remove animals before spraying and do not return animals to treated areas until spray has dried completely. Pets and their bedding should also be treated with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program to prevent the introduction of adult fleas.

**OUTDOOR FLEA CONTROL:**

Apply NyGuard® EZ1 IGR Concentrate dilution, to areas where pets normally frequent such as under trees, ornamental plants and shrubs. NyGuard® EZ1 IGR Concentrate acts on the immature life stages of the flea, preventing the development of adult fleas. Flea eggs deposited on treated areas will not develop into adult fleas. Flea larvae crawling onto treated surfaces will also not develop into adult fleas. NyGuard® EZ1 IGR Concentrate eliminates the flea population when used as directed. NyGuard® EZ1 IGR Concentrate controls the flea population by inhibiting reproduction. NyGuard® EZ1 IGR Concentrate causes a gradual reduction and ultimately eliminates the flea population by breaking the reproductive cycle. This concentrate does not affect existing adult fleas and flea pupae. Application on soil surfaces will provide 21 days of IGR activity. Treat lawn area with an EPA registered lawn treatment product to kill adult fleas if a large population exists.

**SPRAY PREPARATION:** Using a hose-end sprayer, tank type sprayer or sprinkling can, prepare a diluted spray solution by adding 1 fluid ounce of NyGuard® EZ1 IGR Concentrate in a sufficient volume of water to achieve thorough coverage of 1,000 square feet. Partially filling the sprayer with water, add NyGuard® EZ1 IGR Concentrate, agitate and fill with water to the final volume. Agitate before each spray.

Spray using a slow, even sweeping motion, being sure to cover surface areas where pets normally frequent. Avoid soaking young or flowering plants. One (1) tsp. per gallon will cover 166 square feet for treating pet resting areas. Do not apply under windy conditions. Do not apply this product in or around bodies of water. Repeat application in 21 days.

Remove animals before spraying and do not allow animals or children to return to treated areas until spray has dried completely. Pets and their bedding should also be treated with EPA registered flea and tick control products, such as flea or flea and tick collar, pet dust, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as a part of a complete flea control program to prevent the introduction of adult fleas.

**FOR GERMAN, ASIAN, AND BROWN BANDED COCKROACH AND CRICKET CONTROL:**

The active ingredient in NyGuard® EZ1 IGR Concentrate is an insect growth regulator. NyGuard® EZ1 IGR Concentrate acts on the immature life stages of the cockroach and cricket, preventing nymphal cockroaches and crickets from developing into reproductive adults. Shortly after application of this concentrate cockroaches with twisted wings will begin to appear, indicating that NyGuard® EZ1 IGR Concentrate has taken effect—those cockroaches with twisted wings are unable to reproduce. NyGuard® EZ1 IGR Concentrate eliminates the cockroach and cricket population when used as directed. One treatment works for 6 months against hatching cockroach, nymphs and crickets.

If high populations of adult cockroaches are present, the use of an adulticide may be necessary for immediate control. NyGuard® EZ1 IGR Concentrate causes a gradual reduction in the cockroach population by breaking the life cycle of the cockroach and preventing the cockroaches from breeding. This concentrate may also be combined with a cockroach adulticide. NyGuard® EZ1 IGR Concentrate compliments the rapid activity of the adulticide by providing long term control of cockroach nymphs before they become reproductive adults.

Cockroach and Cricket control	Treatment	Spray solution preparation	Coverage per unit area	Comments
Indoor	General surface application (including broadcast, spot and crack & crevice)	2 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of water	2 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per gallon of water per 1,000 sq. ft. or 1,000 linear feet for crack & crevice	Use in conjunction with an adulticide to provide immediate control of adult insects.
Outdoor	Perimeter crack and crevice	2 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of water	2 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per gallon of water per 1,000 linear feet	

**FOR INDOOR COCKROACH AND CRICKET CONTROL:**

**INSTRUCTIONS FOR USE:** NyGuard® EZ1 IGR Concentrate is mixed with water and applied with spray equipment such as a low pressure sprayer typically used for indoor applications.

**SPRAY PREPARATION:** Prepare a diluted spray solution by adding 2 fluid ounces of NyGuard® EZ1 IGR Concentrate per gallon of water. Partially fill the mixing container with water, add NyGuard® EZ1 IGR Concentrate, agitate and fill to the final volume. Agitate before each spray.

**DILUTION FOR FOGGING APPLICATION:** To prepare the fogging solution, mix 1 fl. oz. of this concentrate with 1 fl. oz. of petroleum distillate or 1 fl. oz. of water and agitate to assure a uniform mixture. The resulting 2 fl. oz. of solution will then be used to fog 1,900 cubic feet of space.

**IN CONJUNCTION WITH AN ADULTICIDE INSECTICIDE:** NyGuard® EZ1 IGR Concentrate can be mixed with other pesticides registered for adult control of cockroaches in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. The combination would provide immediate control of adult cockroaches and inhibit the development of the immature stages of the cockroach nymphs for 6 months. Use NyGuard® EZ1 IGR Concentrate at application rates specified above.

**GENERAL SURFACE APPLICATIONS – COCKROACHES Brown Banded Cockroach, Asian Cockroach, German Cockroach, and Cricket:** Apply diluted spray at the rate of 1 gallon per 1,000 square feet of surface area as a spot treatment, surface application and crack and crevice spray. Contact as many insects as possible with this spray in addition to thorough spraying of all parts of the room suspected of harboring these pests. Special attention should be paid to hiding places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets hitting insects with spray whenever possible.

**FOR OUTDOOR PERIMETER TREATMENTS FOR COCKROACHES AND CRICKETS:**

Prepare a diluted spray solution by adding 2 fluid ounces of NyGuard® EZ1 IGR Concentrate per gallon of water into any low-pressure pump sprayer. At the rate of 1 gallon per 1,000 feet, apply in a band 2-4 feet adjacent to and around the structure and apply to a height of 2-3 feet on the foundation where pests may be active or may find entrance. Apply as a surface spray around window frames, doors, garage doors, patios, decks, carports, and shutters, around garbage areas, sill plates and other areas where cockroaches may congregate. Do not apply as a space spray. Do not apply under windy conditions. Do not apply this product in or around bodies of water.

**FOR CONTROL OF STORED PRODUCT PESTS (including Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Saw-toothed Grain Beetles, Warehouse Beetles, Cigarette Beetles and Dermestid Beetles):**

**FOOD AND NON-FOOD WAREHOUSES:** NyGuard® EZ1 IGR Concentrate may be applied as a general surface, fogger, spot or crack and crevice treatment in food and nonfood storage warehouses. Apply to all areas that may harbor pests, including under and between pallets. Repeat application in 90 days.

**TREATMENTS IN FOOD HANDLING ESTABLISHMENTS (Places other than private residences in which food is held, processed, prepared or served):** Application is limited to space, general surface, spot, and/or crack and crevice treatment in food handling establishments where food and food products are held, prepared, processed and served. Space and general surface application may be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application. Spot, and/or crack and crevice treatments may be used while the facility is in operation provided exposed food is covered or removed from the area being treated prior to application. Food contact surfaces must be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product.

**NON-FOOD AREAS:** NyGuard® EZ1 IGR Concentrate may be used to treat nonfood areas. Nonfood areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

**FOOD AREAS:** NyGuard® EZ1 IGR Concentrate can be used to treat food areas. May be used in food areas of food handling establishments, restaurants, or other areas where foods are commercially prepared or served. May be used in serving areas only when facility is not in operation or food is not exposed. Serving areas are areas where prepared foods are served, such as dining rooms. In the home all food-processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Food areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Repeat application in 90 days.

**SPRAY PREPARATION FOR SURFACE, SPOT, AND CRACK AND CREVICE**

**APPLICATIONS:** Prepare a diluted spray solution by adding 1.5 fluid ounces of NyGuard® EZ1 IGR Concentrate per gallon of water. Partially fill the mixing container with water, add NyGuard® EZ1 IGR Concentrate, agitate and fill to final volume. Agitate before each spray application.

**TANK MIXING:** NyGuard® EZ1 IGR Concentrate can be mixed with other pesticides in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Stored product pests	Treatment	Spray solution preparation	Coverage per unit area	Comments
Food and nonfood areas	General surface application (including broadcast, spot and crack & crevice)	1.5 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of water	1.5 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per gallon of water per 1,500 sq. ft. or 1,000 linear feet for crack & crevice	Use in conjunction with an adulticide to provide immediate control of adult insects.
Food and nonfood areas	Fogging/ULV	1.5 fl. oz. diluted in appropriate carrier	1.5 fl. oz. NyGuard® EZ1 IGR Concentrate diluted in appropriate carrier per 12,000 cu. ft.	

**GENERAL SURFACE APPLICATIONS:** Apply diluted spray at a rate of 1 gallon per 1,500 square feet. For treatment of food processing and food handling establishments, apply with a sprayer that will give coarse, wet droplets. Spray surfaces, into cracks and crevices in walls and floors, under and between pallets, areas at the base of machinery and equipment, under furniture, in mop and equipment closets, behind cabinets, under shelves and racks, around pipes and openings in floors and walls, along baseboards, in wall voids, and other areas where insects seek harborage. Contact as many insects as possible. Repeat application in 90 days.

**SPOT AND CRACK AND CREVICE APPLICATIONS:** Apply NyGuard® EZ1 IGR Concentrate diluted spray solution using a pressurized spray system capable of delivering a pinpoint or variable spray pattern. Crack and crevice applications may be made directly to areas such as crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas. Spot treatments may also be made to areas including storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas.

**FOGGING APPLICATIONS:** NyGuard® EZ1 IGR Concentrate may be applied as a fog or an ultra-low volume (ULV) application with equipment such as ULV equipment, mechanical misting sprayers, aerosol generators, or thermal foggers. To prepare the fogging solution, follow the equipment manufacturer's solution preparation instructions. For fogging applications, NyGuard® EZ1 IGR Concentrate may be diluted with water or petroleum distillate. Apply at a rate of 1.5 fluid ounces of NyGuard® EZ1 IGR Concentrate diluted in appropriate carrier per 12,000 cubic feet. Fogging applications are recommended for larger facilities including food and non-food warehouses. Close area to be treated and shut off all ventilation systems. Apply the product in the air and direct fog or mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer as recommended by the equipment manufacturer or the labels of other products applied in tank mixing. Do not remain in treated area. Ventilate thoroughly before reentry.

**FOR CONTROL OF LITTER BEETLES (such as Darkling, Hide and Carrion Beetles):**

NyGuard® EZ1 IGR Concentrate can be applied to litter, such as in poultry houses infested with Litter Beetles, to break the lifecycle of these insect pests. Make uniform application of NyGuard® EZ1 IGR Concentrate to litter at the rate of 1 fluid ounce of NyGuard® EZ1 IGR Concentrate per 1,000 square feet space in sufficient volume of water to achieve thorough coverage. For effective prevention of beetle larvae in litter, remove animals from immediate treatment area and old litter. Surface treat immediately after animals are removed and again just prior to new animal placement is most effective. Adult egg-laying beetles can be killed with fast-acting adulticides. Application of adulticides to walls and floors at cleanout, before reintroduction of animals, will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls and around feeders. Cover or remove exposed food, feed, water and watering equipment.

Apply NyGuard® EZ1 IGR Concentrate uniformly at the rate of 1 fluid ounce of NyGuard® EZ1 IGR Concentrate per 1,000 square feet to floor area and to walls, posts, and cage framing (birds grown in cages only). Application should also be made into cracks and crevices around insulation. Reapply after each grow out or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply NyGuard® EZ1 IGR Concentrate or adulticide insecticides, or both, in a uniform band at least 1 foot up and 1-4 feet out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

Litter Beetle control	Treatment	Spray solution preparation	Coverage per unit area	Comments
In poultry houses	General surface application (including broadcast, spot and crack & crevice)	1 fl. oz. NyGuard® EZ1 IGR Concentrate in sufficient volume of water to achieve thorough coverage	1 fl. oz. NyGuard® EZ1 IGR Concentrate diluted in sufficient volume of water to achieve thorough coverage per 1,000 sq. ft. or 1,000 linear feet for crack & crevice	Use in conjunction with an adulticide to provide immediate control of adult Litter Beetles.  Do not apply to interior areas where animals are present.

**FOR CONTROL OF ANTS:**

Apply NyGuard® EZ1 IGR Concentrate at the rate of 2 fluid ounces diluted in one gallon of water per 1,000 square feet to interior areas where Ants are actively foraging and in a band 6-10 feet wide adjacent to the exterior foundation wall of the building. NyGuard® EZ1 IGR Concentrate may be used alone, with alternating treatments of an adulticide insecticide, or in a tank mix combination with an adulticide insecticide.

• If needed, repeat treatments with NyGuard® EZ1 IGR Concentrate may be made 14 days after previous treatment or if heavy rainfall occurs repeat application.

Ant control	Treatment	Spray solution preparation	Coverage per unit area	Comments
Interior and exterior applications	General surface application (including broadcast, spot and crack & crevice)	2 fl. oz. NyGuard® EZ1 IGR Concentrate per gallon of water, thoroughly wet surface being treated	2 fl. oz. NyGuard® EZ1 IGR Concentrate diluted per gallon of water per 1,000 sq. ft. or 1,000 linear feet for crack & crevice	Use in conjunction with an adulticide to provide immediate control of adult ants.

**FOR CONTROL OF FLYING INSECT PESTS (such as Flies, Moths, Midges, Mosquitoes and Gnats):**

**GENERAL SURFACE TREATMENTS:** For control of House Flies, Stable Flies, Moths, Mosquitoes, Nuisance Flies (gnats, midges) and other similar flying pest insects such as those classified as Dipterous or Hymenopterous. NyGuard® EZ1 IGR Concentrate effects both adult and juvenile stages. In House Flies, NyGuard® EZ1 IGR Concentrate causes a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) show physiological and functional defects leading to the inability to develop into normal adults. When used alone, NyGuard® EZ1 IGR Concentrate insect growth regulator will result in a reduction in adult fly populations after 3-4 weeks when previously hatched adult flies have died naturally.

NyGuard® EZ1 IGR Concentrate may be used for control of flying insect pests in those areas in, on and around residential, commercial, public, industrial and agricultural buildings. For the purposes of controlling general and occasional insect pests, NyGuard® EZ1 IGR Concentrate may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

- Do not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.
- If needed, repeat treatments with NyGuard® EZ1 IGR Concentrate may be made 14 days after previous treatment or if heavy rainfall occurs repeat application.

**TREATMENTS IN COMBINATION WITH AN ADULTICIDE:** For knockdown and more rapid control of adult flying insect pests or to control an influx of flies from untreated areas, use NyGuard® EZ1 IGR Concentrate in alternation or in a tank mix combination with an adulticide insecticide. The combination would provide for immediate control of adult flying insects such as flies on resting surfaces such as walls and overhead areas while preventing immature insect stages from developing into adults.

**TANK MIXING:** NyGuard® EZ1 IGR Concentrate can be mixed with other pesticides in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Prepare the tank mix using the recommended label rate of adulticide and NyGuard® EZ1 IGR Concentrate by adding the adulticide first and making sure it is well mixed and in suspension and then adding the correct amount of NyGuard® EZ1 IGR Concentrate according to the label instructions below.

Flying insect control	Treatment	Spray solution preparation	Coverage per unit area	Comments
Indoor and outdoor	General surface application (including broadcast, spot and crack & crevice)	1 fl. oz. NyGuard® EZ1 IGR Concentrate in sufficient volume of water to thoroughly wet the surface being treated	1 fl. oz. NyGuard® EZ1 IGR Concentrate diluted in sufficient volume of water to thoroughly wet surface per 1,500 sq. ft. or 1,000 linear feet for crack & crevice	Use in conjunction with an adulticide to provide immediate control of adult insects.
	Fogger/ULV treatment	1.5 fl. oz. NyGuard® EZ1 IGR Concentrate diluted in carrier	1.5 fl. oz. NyGuard® EZ1 IGR Concentrate diluted in carrier per 12,000 cu. ft.	

**TREATMENTS IN, ON AND AROUND LIVESTOCK AND POULTRY HOUSING AND PET KENNELS:** NyGuard® EZ1 IGR Concentrate may be used by pest control operators or livestock producers in livestock housing structures (including poultry houses) and pet kennels to control flying insect pests. Remove pets from kennels before treatment. Apply as a general surface, fogger/ULV or a crack and crevice application to areas where flying pests collect or breed.

For surface applications, thoroughly wet floors, walls, ceilings, and doors, around windows, garbage and refuse areas. When used as directed, control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.

- Treat birdcages or stock pens only after removal of animals.
- Do not make interior applications of NyGuard® EZ1 IGR Concentrate in areas of facility where animals are present.
- Allow treated areas to dry before allowing animals back in treated areas of facility.
- Cover or remove exposed food, feed, water and watering equipment.

**TREATMENTS TO INTERIOR AREAS AND SURFACES:** Use 1 fluid ounce of NyGuard® EZ1 IGR Concentrate per gallon of water and apply to 1,500 square feet of surface area or in sufficient volume to achieve adequate coverage. Treat all areas where flying insects may collect, rest or breed, including vertical walls, ceilings, pipes, conduits, stalls, stanchions, floors, and walkways. When NyGuard® EZ1 IGR Concentrate is used alone, treatments can be extended to animal bedding, manure, and other potential areas where flying insects may breed.

**TREATMENTS TO PERIMETER AREAS AND SURFACES:** Use 1 fluid ounce of NyGuard® EZ1 IGR Concentrate per gallon of water and apply to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or found. For perimeter control, make a general surface application of 1 fluid ounce of product diluted in water to cover 1,500 square feet or in sufficient volume to achieve adequate coverage. To help prevent infestations of buildings by flying insects, treat soil, vegetation or other substrates in a band 6-10 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry area under lock and key. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves and dry formulations above.

**PESTICIDE DISPOSAL:** To avoid wastes, use all materials in the containers by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container.

For containers equal to or less than 5 gallons: Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Observe the most restrictive of labeling limitations and precautions of all products used in mixtures.

**PHYSICAL OR CHEMICAL HAZARDS: Combustible.** Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to possibility of shock hazard.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

### FIRST AID

**IF SWALLOWED:**

- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.



EPA Reg. No. 1021-1620  
EPA Est. Nos. 1021-MN-2\*, 63416-MN-1\*  
Superscript is the first character of the lot number.  
0511-0911



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8810 Tenth Avenue North, Minneapolis, MN 55427

25M-1111



# Maxforce<sup>®</sup>

## FC SELECT

### PROFESSIONAL INSECT CONTROL<sup>®</sup> Roach Killer Bait Gel

FOR USE IN COMMERCIAL, INDUSTRIAL AND RESIDENTIAL AREAS

**ACTIVE INGREDIENT:**

Fipronil: (S)-Allylo-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-(1,1,1-trifluoroethyl)but-3-ynyl-1H-pyrazole-3-carbonitrile:..... 0.01%

**OTHER INGREDIENTS:**..... 99.99%

**Total:**..... 100.00%

CAS NO.: 120068-37-3

EPA Reg. No. 432-1259

EPA Est. No. 071106-GA-003

**STOP - Read the label before use.  
Keep out of reach of children.**

### CAUTION

See back and side panels for complete Precautionary Statements, Hazards, Directions for Use and additional instructions.

Contents: 4 Reservoirs  
30g (1.05 Oz) each  
Total Net Weight: 120g (4.2 Oz)

Contains 4 pre-filled reservoirs  
for use with the MAXFORCE  
Bait Injector

**79434820**

80251335A 061124A

#### FIRST AID

<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

Have this product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment information.



Do not treat food preparation surfaces. Do not apply bait gel to areas which have been recently sprayed with insecticide, and do not spray insecticide over gel as it may cause the bait to become repellent.

Gel placements should be at or near harborage or aggregation areas, such as corners, or cracks and crevices. Numerous smaller placements will provide faster control than fewer larger spots, especially for German cockroach control.

For outdoor use (adjacent to home or structure): Place in cracks or crevices adjacent to structures where large roaches may rest or breed. Apply bait to potential points of insect entry, such as eaves, sills, and expansion joints. Apply bait in protected areas wherever possible. Environmental stresses such as direct sunlight and water will reduce the residual effectiveness. † American, Oriental, Brown, Smokey Brown

Do not exceed 1 tap per station.

If the station is not equipped with a sticker to identify the contents, apply a sticker to the inside of the station.

**Directions for loading reservoirs and operation:**

1. With the teeth of the drive rod facing up, pull the drive rod all the way back. If the drive rod is initially hard to move, simply un-screw (turn counter-clockwise) the black portion of the applicator that holds the gel reservoir until the drive rod moves easily. 2. Attach a pre-filled reservoir of gel with a twist-locking motion. 3. Remove the outlet cap and attach

a squeezing tip, Break-Up Reservoir. Prior to use, break the snap-up closed end of the gel reservoir at the scored line. After use, the reservoir may be resealed with the enclosed black outlet cap. The black outlet cap is reusable. 3. Turn the knob of the drive rod so that the teeth are facing down and move it slightly forward so that the trigger mechanism will engage. Squeeze the trigger until the drive plunger seals against the piston in the gel reservoir. Gently squeeze the trigger until the gel flows out. 4. If gel continues to flow after the trigger is released, simply unscrew the portion of the bait applicator that holds the reservoir to a point where gel does not continue to flow after the trigger is released. Post population reduction will be apparent within 2 - 3 days for German roaches and 6 days for American roaches.

**Most important locations:**

Behind appliances; along baseboards; under appliances and under sink

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR

SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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Produced for:  
**Bayer Environmental Science**  
A Division of Bayer CropScience LP  
2 T. W. Alexander Drive  
Research Triangle Park, NC 27709  
Product of China

# SAFETY DATA SHEET (GHS)



Date Issued : 10/9/2007  
 MSDS No : NyGuard EZ1™  
 Date-Revised : 6/10/2014  
 Revision No : 4

## NyGuard EZ1™ Insect Growth Regulator

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NyGuard EZ1™ Insect Growth Regulator  
**PRODUCT DESCRIPTION:** An Emulsifiable Insecticide Concentrate with Insect Growth Regulator.  
**PRODUCT CODE:** 2607A, EPA REG. NO. : 1021-1620  
**ACTIVE INGREDIENT(S):** NYLAR® (Pyriproxyfen)

#### MANUFACTURER

McLaughlin Gormley King Company  
 8810 10th Avenue North  
 Minneapolis, MN 55427  
**Emergency Contact:** SafetyCall@  
**Emergency Phone:** 1(888) 740-8712  
**Alternate Emergency Phone:** 1(952) 852-9509  
**Product Stewardship:** 1(800) 645-6466  
**E-Mail:** mgk-sds@mgk.com

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**FOR TRANSPORTATION:**  
**CHEMTREC® U.S. and CANADA:** 1(800) 424-9300  
**CHEMTREC® All Other Areas:** 1(703) 527-3887

**COMMENTS:** MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to 1-888-740-8712.

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Skin Irritation, Category 2  
 Acute Toxicity (Inhalation), Category 5  
 Acute Toxicity (Oral), Category 5  
 Aspiration Hazard, Category 2

##### Environmental:

Acute Hazards to the Aquatic Environment, Category 1

##### Physical:

Combustible Liquids, Category 4

#### GHS LABEL



Exclamation  
mark  
(GHS 07)



Health  
hazard  
(GHS 08)



Flame (GHS  
02)



Environment  
(GHS 09)

**SIGNAL WORD: WARNING**

#### HAZARD STATEMENTS

H315: Causes skin irritation.  
 H333: May be harmful if inhaled.

## SAFETY DATA SHEET (GHS)



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### NyGuard EZ1™ Insect Growth Regulator

H305: May be harmful if swallowed and enters airways.  
H227: Combustible liquid.  
H400: Very toxic to aquatic life.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P202: Do not handle until all safety precautions have been read and understood.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P270: Do not eat, drink, or smoke when using this product.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

##### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

##### Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

**COMMENTS:** This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
NYLAR® (Pyriproxyfen)	1.3	95737-68-1
Petroleum Distillates, Light, Hydrotreated	50 - 80	64742-47-8

**COMMENTS:** Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

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### NyGuard EZ1™ Insect Growth Regulator

**NOTES TO PHYSICIAN:** This product contains petroleum distillates and poses an aspiration pneumonia hazard.

#### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** OSHA-COMBUSTIBLE LIQUID

**EXTINGUISHING MEDIA:** Foam, carbon dioxide or dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

**SENSITIVE TO STATIC DISCHARGE:** Yes, use proper bonding and/or grounding procedures.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

**LARGE SPILL:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

**GENERAL PROCEDURES:** Contaminated absorbent and wash water should be disposed of according to local state/provincial and federal/national regulations.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** COMBUSTIBLE LIQUID. DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD. Do not use or store near heat, open flame, or any other ignition sources.

**HANDLING:** Take prudent precautions to avoid contact with skin, eyes, and clothing. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal.

READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL.

**STORAGE:** Store in a cool, dry place, under lock and key. Keep container closed. Post as a pesticide storage area. Keep away from heat, sparks, open flame, and any other ignition sources. Keep away from strong acids, bases and oxidizers. Always store pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves, and dry formulations above.

**KEEP OUT OF REACH OF CHILDREN**

**ELECTROSTATIC ACCUMULATION HAZARD:** This product contains petroleum distillates for which there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading, and transfer of this product.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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## NyGuard EZ1™ Insect Growth Regulator

## EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
NYLAR® (Pyriproxyfen)	TWA	None		None		None	
Petroleum Distillates, Light, Hydrotreated	TWA	500	2000	None		None	

**ENGINEERING CONTROLS:** Ventilate treatment area thoroughly before re-entry.

## PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes.

**SKIN:** Take prudent precautions to avoid contact with skin and clothing.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Odor of Petroleum Distillates.

**APPEARANCE:** Clear to light-amber colored liquid.

**COLOR:** 1.0 on Gardner Scale.

**pH:** 7.8

**Notes:** @ 1.3% in Water.

**FLASHPOINT AND METHOD:** 67.2°C (153°F) TAG Closed Cup

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Available

**SOLUBILITY IN WATER:** Partially miscible in water.

**SPECIFIC GRAVITY:** 0.854 (Water = 1) at 20 °C (68 °F)

**VISCOSITY #1:** 10.5 CPS at 23°C (73.4 °F) Brookfield

**(VOC):** < 67.000 %

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE**

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### NyGuard EZ1™ Insect Growth Regulator

**DERMAL LD<sub>50</sub>:** > 2.0 gm/kg

**Notes:** Albino rabbit.

**ORAL LD<sub>50</sub>:** > 5.0 gm/kg

**Notes:** Albino rat.

**INHALATION LC<sub>50</sub>:** > 7.60 mg/L

**Notes:** Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC<sub>50</sub> of this material places it in EPA Toxic Category IV.

**EYE EFFECTS:** Irritation clearing by Day 7.

**SKIN EFFECTS:** Moderate irritation at 72 hours. Produced a primary skin Irritation Index of 2.17

**SENSITIZATION:** Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

**GENERAL COMMENTS:** Some or all of the toxicity data reported above was bridged from a substantially similar formula.

**COMMENTS:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

#### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Observe the most restrictive of labeling limitations and precautions of all products used in mixtures.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** To avoid wastes, use all materials in the containers by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (NOTE: such programs are often run by state or local governments, or by industry).

**EMPTY CONTAINER:** Non-refillable container. DO NOT reuse or refill this container. Triple-rinse container (or equivalent) promptly after emptying.

Triple-rinse as follows for containers less than < 5 gallons (< 18.9 L) or less: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Triple-rinse as follows for containers greater than > 5 gallons (> 18.9 L): Empty the remaining contents into application equipment or a mix-tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

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### NyGuard EZ1™ Insect Growth Regulator

#### 14. TRANSPORT INFORMATION

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**OTHER SHIPPING INFORMATION:** This material is considered to be NON-HAZARDOUS by DOT regulations.

##### AIR (ICAO/IATA)

**SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**NOTE:** Not considered hazardous by IATA/ ICAO regulations for transportation via air.

##### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not Available

#### 15. REGULATORY INFORMATION

##### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

**313 REPORTABLE INGREDIENTS:** This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

##### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

##### REGULATIONS

##### STATE REGULATIONS:

##### VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 67% VOC's.

##### FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

**NOTE:** This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

**CAUTION.** Causes moderate eye irritation. Harmful if absorbed through the skin. Contains petroleum distillates - Vomiting may cause aspiration pneumonia. Avoid contact with skin, eyes, and clothing.

**PHYSICAL OR CHEMICAL HAZARDS:** Combustible. Do not use or store near heat or open flame. Do not use this product in or on

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electrical equipment due to the possibility of shock hazard.

## 16. OTHER INFORMATION

**REVISION SUMMARY:** This MSDS replaces the 3/11/2010 MSDS. Revised: **Section 2:** EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS ( SKIN, SKIN ABSORPTION, INHALATION, INGESTION ). **Section 4:** CHRONIC EFFECTS. **Section 11:** ACUTE - INHALATION LC<sub>50</sub> (rat). **Section 13:** EMPTY CONTAINER.

## HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY		2
PHYSICAL HAZARD		1
PERSONAL PROTECTION	<input type="checkbox"/>	

**HMIS RATINGS NOTES:** We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

**COMMENTS:** The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

MSDS Prepared by T. Azzivitto

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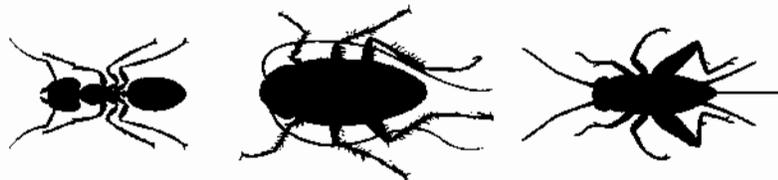
## FIRST AID

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency treatment information.

QUESTIONS? COMMENTS? Call: 1-800-331-2867.



This Maxforce Complete Brand Granular Insect Bait controls:

Roaches <sup>1</sup>	Crickets	Silverfish	Firebrats	Earwigs
Ants including the following ant species:				
Acrobat	Carpenter	Field	Harvester	Pharaoh
Argentine	Cornfield	Fire <sup>2</sup>	Odorous House	Thief
Big Headed	Crazy	Ghost	Pavement	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment (PPE)

Applicators and handlers must wear: Shoes plus socks.

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

## STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in a cool dry secure area (out of reach of children).

Keep container closed when not in use. Avoid contamination with other insecticides.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Refillable container. Refill this container with Maxforce® Complete Brand Granular Insect Bait only. Do not reuse this container for any other purpose. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## GENERAL INFORMATION

Maxforce Complete Brand Granular Insect Bait is a ready-to-use product for use indoors and outdoors and around buildings, on lawns, and other non-crop areas\* such as residential areas, the non-food/non-feed areas of institutional and commercial establishments including warehouses, restaurants, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, apartment buildings, schools, laboratories, computer facilities, pet shops, zoos, sewers, highway rights-of-way and medians, traffic islands, utility rights-of-way (including power lines, pipelines, aqueducts) managed turf areas (non-crop\*) (including school yards, playgrounds, athletic fields, amusement parks, picnic areas, recreation areas, office parks, industrial grounds, airports, shopping centers, public parks, arboretums, public gardens, monument sites, cemeteries and mausoleums, golf courses, race tracks, fairgrounds, outdoor amphitheaters, sod farms, and ornamental nurseries). The use of this product on pasture and rangeland is unlawful. Do not graze or feed lawn or sod clippings to livestock. Maxforce Complete Brand Granular Insect Bait contains a special blend of foods, combined with the delayed-action stomach poison, hydramethylnon. The delayed action of the active ingredient allows foraging ants to bring the bait back to the nest so that the entire colony, including the queen, is destroyed. When properly used, this bait will control many of the following insects, including ants, cockroaches<sup>1</sup>, crickets, and silverfish before they can enter a structure. Do not apply other insecticides (such as aerosols, sprays, etc.) on top of or in close proximity to Maxforce Complete Brand Granular Insect Bait, as it will reduce the effectiveness. Expect to see fewer insects within a week.

\*Do not use on other non-crop areas in California.

### General Precautions

Do not apply other insecticides (such as aerosols, sprays, etc.) on top or in close proximity to this product, as it will reduce effectiveness.

### Application Restrictions

Do not apply this product by any method not specified on this label. The use of this product on pasture and rangeland is unlawful. Do not graze or feed lawn or sod clippings to livestock. DO NOT

USE ON EDIBLE FOOD CROPS OR ON AREAS INTENDED FOR EDIBLE FOOD CROP PRODUCTION.  
Not for use in USDA meat and poultry plants.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### **APPLICATION INSTRUCTIONS**

**KEEP PEOPLE AND PETS OUT OF AREA DURING APPLICATION.**

#### **FOR OUTDOOR USE**

**1. AROUND STRUCTURES:** Maxforce Complete Brand Granular Insect Bait may be sprinkled around structures and/or applied to refillable/serviceable bait stations as outlined below. Sprinkle this product evenly in a 1-2 foot wide band adjacent to the structure at a rate of 0.5 oz (one tablespoon) of bait per 25 linear feet. NOTE: Around structures the total application should not exceed 4-8 oz per 200-400 linear feet (or 0.5 oz per 25 linear feet). A typical application would be 4-8 oz adjacent to an average sized home of 200-400 linear feet. Be sure to treat areas such as porches, patios, driveways, sidewalks, flower gardens, landscape timbers and around trees, wood piles, air conditioning units and garbage receptacles. **DO NOT USE ON EDIBLE FOOD CROPS OR ON AREAS INTENDED FOR EDIBLE FOOD CROP PRODUCTION.** Treat visible ant trails as well as cracks or crevices where insects (ants, roaches, crickets) may enter a structure. **REFILLABLE STATIONS:** Maxforce Complete Brand Granular Insect Bait may be placed into refillable tamper resistant bait stations. Place up to 1 to 3 oz (2 to 6 Tbsp.) of bait into tamper resistant stations and close securely after application. During follow-up visits inspect placements and reapply as needed. Refillable tamper resistant stations should be placed every 20 to 30 feet around the perimeter of a structure. Use approximately 2 stations per side of a typical single family home. For best results, place stations near: air conditioning units, water faucets, foundation vents and weep holes, decks, utility entryways (e.g. electrical, cable TV) and wherever target pests are frequently found. Stations may also be placed along fence lines and property lines to intercept foraging pests. Regularly inspect all stations and replace bait as needed for continual control. Position Refillable Bait Stations in areas where they will not be damaged by lawn equipment such as mowers and trimmers. If the station is not equipped with a sticker to identify the contents, apply a sticker to the outside or inside of the station.

**2. BROADCAST APPLICATION:** Broadcast this product uniformly at a rate of 1 oz per 1,800 sq ft (equivalent to 1.5 lbs/A).

**3. FIRE ANTS<sup>2</sup> AND OTHER MOUND BUILDING ANTS<sup>3</sup>:** Sprinkle approximately two tablespoons (1 oz) of bait around each mound. For best results, do not apply bait directly in or on the mound. Do not disturb the mound. Ants that are agitated may not feed on the bait.

#### **For INDOOR USE:**

**AVOID CONTAMINATION OF FOOD, FOOD CONTACT SURFACES AND FEEDSTUFFS.** NOTE: Indoor applications are limited to areas that are inaccessible to children or pets, such as cracks, crevices, wall voids, unfinished attics, crawl spaces, refillable tamper-resistant bait stations and behind electrical switch plates, within residential and non-residential buildings or structures and within non-food/non-feed areas of industrial, institutional, and commercial buildings. Non-food/non-feed areas include bedrooms, living rooms, bathrooms, closets, media rooms, garbage rooms, lavatories, entries, vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

Apply up to 0.5 oz (one tablespoon) of bait per crack, crevice or other inaccessible areas where insects may hide or live. Apply product using suitable application equipment (such as the Centro Bait Master.) Wipe up any loose or excess granules. Apply evenly in unfinished attics and crawl spaces at a rate of 0.5 oz per 100 sq ft only if the space is secured or otherwise inaccessible to children and domestic animals.

<sup>1</sup> German, American, Oriental, and Smoky Brown Roaches

<sup>2</sup> Native and Imported

<sup>3</sup> Pavement, Field, Cornfield, and Harvester Ants

## **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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Produced for:

**Bayer Environmental Science**

A Division of Bayer CropScience LP

2 T. W. Alexander Drive

Research Triangle Park, NC 27709

**NOTE:**

When this document is printed at 100% (actual size), this text is 6 pt Helvetica Neue Bold.  
 When this document is printed at 100% (actual size), this text is 6 pt Helvetica Neue Condensed.



# Maxforce®

## COMPLETE brand Granular Insect Bait

FOR INDOOR AND OUTDOOR CONTROL OF ANTS, CRICKETS AND ROACHES!  
 FOR USE IN AND AROUND STRUCTURES AND RESIDENTIAL AREAS

Active Ingredients: Hydramethylnon; tetrahydro-5, 5-dimethyl-2(1H)-pyrimidinone, (3-[4-(trifluoromethyl) phenyl]-1-(2-(4-(trifluoromethyl) phenyl) ethenyl)-2-propenylidene) hydrazine..... 1.00%  
 Other Ingredients: ..... 99.00%  
 Total ..... 100.00%

TCAS No. 87485-29-4 EPA Est. No. 67572-GA-1  
 EPA Reg. No. 432-1255

### KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTION: AL USUARIO: Si usted no lee ingles no use este producto hasta que la etiqueta le haya sido explicada ampliamente.  
 See inside leaflet for complete First Aid Instructions, Precautionary Statements, Directions for Use and Storage and Disposal Instructions.

Net Weight  
**8 Ounces (227 g)**  
**79898851**  
 800216588 120603AV1

FIRST AID	
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency treatment information.	

QUESTIONS? COMMENTS? Call: 1-800-331-2867.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

STORAGE AND DISPOSAL:
Do not contaminate water, food or feed by storage or disposal.
<b>PESTICIDE STORAGE:</b> Store in original container in a cool dry secure area (out of reach of children).
Keep container closed when not in use. Avoid contamination with other insecticides.
<b>PESTICIDE DISPOSAL:</b> Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.
<b>CONTAINER DISPOSAL:</b> Refillable container. Refill this container with Maxforce® Complete Brand Granular Insect Bait only. Do not reuse this container for any other purpose. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.



Produced for:  
**Bayer Environmental Science**  
 A Division of Bayer CropScience LP  
 2 T. W. Alexander Drive  
 Research Triangle Park, NC 27709

MAXFORCE 432-1255  
Process Color



BLACK

MAXFORCE 432-1255  
Spot Colors



PANTONE 287



PANTONE 279



PMS 186 C

# Transport<sup>®</sup>

## Mikron<sup>™</sup>

### INSECTICIDE

To control termites and listed household pests indoors and around the exterior perimeter of residential institutional, public, commercial industrial buildings, and non-commercial barns (i.e., non-commercial barns are storage structures not intended for housing livestock other than pets), and food/feed handling establishments.

When used as a termiticide, individuals/firms must be licensed by the state to apply this product. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your state prior to use of this product.

EPA Reg. No. 8033-109-279 EPA Est. No. 279-NY-1

Active Ingredient:	By Wt.
Acetamiprid .....	5.00 %
Bifenthrin* .....	6.00 %
Other Ingredients: .....	89.00 %
	100.00%

\*Cis isomers 97% minimum, trans isomers 3% maximum.

This product contains 0.44 lb. acetamiprid and 0.53 lb. bifenthrin active ingredients per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

# FMC

FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia PA 19103

Net Contents: 1 Quart

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1(800) 331-3148 for Emergency Assistance.	
NOTE TO PHYSICIAN	
This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.	
For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).	

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans (and Domestic Animals)

**CAUTION**  
Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirts, long pants, socks, shoes, and chemical-resistant gloves while mixing. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn®), or an in-line injector system, shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space or when applying termiticide by rodding or sub-slab injection.

#### User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Use one of the following NIOSH approved respirator with any R, P or HE filter or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

When using the product as a termiticide and treating adjacent to an existing structure, the applicator must check the area to be treated, as well as immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the cleanup is completed.

### Environmental Hazards

This pesticide is extremely toxic to wildlife, fish, and aquatic invertebrates. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area.

### Physical and Chemical Hazards

Do not apply water-based dilutions of Transport Mikron Insecticide to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product can also be used to control ants and other household pests outdoors around the exterior perimeter of buildings and structures.

For the following public health pests, do not apply less than the application rates specified on the label: Ants (including Red Imported Fire Ants and Carpenter Ants), Bed Bugs, Bees, Biting Flies, Carpenter Bees, Centipedes, Chiggers, Clover Mites, Cockroaches, Fleas, Flies, Gnats, Ground-nesting (solitary) bees and wasps, Midges, Mosquitoes, Scorpions, Spider Mites, Spiders (including Black Widow and Brown Recluse), Ticks (including Brown Dog Ticks), Wasps

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep out of reach of children and animals. Store in original container only. Store in a cool, dry place and avoid excess heat. Do not store at temperatures below 32°F (0°C). Do not put concentrate or diluted material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.**

**To Confine Spill:** Dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available.

## Subterranean Termite Control

Please note that annual inspections are recommended in any termite management program.

The insecticidal dilution must be adequately dispersed in the soil to establish an effective barrier between the wood and the termites in the soil. For effective termite management incorporate the following cultural practices: 1) remove all non-essential wood and cellulose containing materials from around foundation walls, crawl spaces, and porches; 2) Repairing faulty plumbing and/or construction grade to eliminate termite access to moisture. Treat soil around untreated structural wood as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current termite control practices such as: trenching, rodding, sub-slab injection, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to control infestations by subterranean termites such as: *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

For advice concerning current control practices with relation to specific local conditions, consult resources in structural pest control and state cooperative extension and regulatory agencies.

### DILUTION CHART FOR SUBTERRANEAN TERMITE TREATMENTS

Number of fluid ounces	Gals. of Water	Concentration of Active Ingredient
1.25	1	0.11%
62.5	50	0.11%
125	100	0.11%

<b>Restrictions</b>	Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not contaminate cisterns or wells. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (HUD) for guidance.
<b>Critical Areas</b>	Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bath traps and areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.
<b>Application Rate</b>	1.25 ounces per 1 gallon of water. When properly mixed in water, the end use dilution after adding 1.25 ounces of Transport Mikron Insecticide to 1 gallon of water for termites is 0.11% active ingredient.
<b>Mixing Directions</b>	Fill tank 1/4 to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add Transport Mikron Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes. Transport Mikron Insecticide may also be mixed into full tanks of water.
<b>Application Volume</b>	For control of termite infestations, apply the specified volume of the finished water dilution and active ingredient as set forth in the directions for use section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same. Certain elements of a structure may not need to be treated, such as the drilling and treatment of basement slabs in northern states. Large reductions of application volume reduce the ability to obtain a continuous treated zone. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous treated zone can still be achieved. Where desirable for pre and post construction treatments, the volume of the Transport Mikron Insecticide dilution may be reduced by 1/2 the labeled volume (and doubling the amount of Transport Mikron Insecticide). When volume is reduced, the hole spacing for sub-slab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.
<b>After Treatment</b>	All holes in commonly occupied areas into which Transport Mikron insecticide has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

Pre-Construction Subterranean Termite Control	
<p>Effective pre-construction subterranean termite control is achieved by establishment of vertical and horizontal insecticidal barriers using a 0.11% dilution of Transport Mikron Insecticide.</p> <p><b>Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to the installation of the finished grade.</b></p> <p>When treating foundations deeper than 4 feet, apply the Transport Mikron Insecticide dilution as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. When trenching, the trench should be about 6 inches wide and 6 inches deep. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.</p>	
<b>Horizontal Barriers</b>	<p>Create a horizontal barrier wherever treated soil will be covered by a slab, such as slab floors, carports, and the soil beneath basement slabs, stairs, and crawl spaces.</p> <p>Apply 1 gallon of dilution per 10 square feet, to provide thorough and continuous coverage of the area being treated.</p> <p>If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.</p> <p>Apply using a low-pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If the slab will not be poured the same day as treatment, cover treated soil with a waterproof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.</p>
<b>Vertical Barriers</b>	<p>Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls and other critical areas.</p> <p>Apply 4 gallons of dilution per 10 linear feet per foot of depth from grade to top of footing to ensure complete coverage.</p> <ol style="list-style-type: none"> <li>When trenching and rodding into the trench, or trenching, it is important that the dilution reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous termicide barrier, but in no case more than 12 inches apart.</li> <li>Care must be taken to avoid soil washout around the footing.</li> <li>Trenches should be about 6 inches wide and 6 inches deep. The dilution must be mixed with the soil as it is being replaced in the trench.</li> <li>For a monolithic slab, an inside vertical barrier may not be required.</li> </ol> <p>Hollow block voids may be treated at a rate of 2 gallons of dilution per 10 linear feet so that the dilution will reach the top of the footing.</p>
<p>Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termicide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termicide is absorbed into the soil.</p>	
<p>The treatment site must be covered prior to a rain event in order to prevent runoff of the pesticide into non-target areas. The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under FIFRA to ensure that: 1) if the concrete slab cannot be poured over the treated soil within 24 hours of application the treated soil is covered with a waterproof covering (such as polyethylene sheeting), and 2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured.</p> <p>Do not treat soil that is water-saturated or frozen. Do not treat when raining. Do not allow treatment to run-off from the target area. Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to lakes; reservoirs, rivers; permanent streams; marshes or ponds; estuaries; and commercial fish farm ponds).</p> <p>Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.</p>	

Post-Construction Subterranean Termite Control	
<p>Post-construction soil applications shall be made by injection, trenching and rodding into the trench or trenching, or coarse fan spray with pressures not exceeding 25p.s.i. at the nozzle. Care must be taken to avoid soil washout around the footing.</p>	
<b>Important</b>	<p>Do not apply dilution until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these elements.</p>
<b>Foundations</b>	<p>For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. When trenching, the trench should be about 6 inches wide and 6 inches deep. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the</p>
<b>Slabs</b>	<p>Vertical barriers may be established by sub-slab injection within the structure and trenching and rodding into the trench or trenching outside at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly to establish a continuous barrier. Treatment must not extend below the bottom of the footing.</p> <p>Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.</p> <ol style="list-style-type: none"> <li>Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.</li> <li>For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The dilution should be applied to the trench and soil at 4 gallons of dilution per 10 linear feet per foot of depth as the soil is replaced in the trench.</li> <li>For foundations deeper than 1 foot follow rates for basement.</li> <li>Exposed soil and wood in bath traps must be treated with the dilution.</li> </ol>
<b>Basements</b>	<p>Where the footing is greater than 1 foot of depth from grade to the bottom of the foundation, application must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. When the footer is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. Structures must not be treated below the footer. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.</p>
<b>Masonry Voids</b>	<p>Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of dilution per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.</p>
<b>Excavation Technique</b>	<p>If treatment must be made in difficult situations, along fieldstone or rubble walls, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:</p> <ol style="list-style-type: none"> <li>Trench and remove soil to be treated onto heavy plastic sheeting or similar material.</li> <li>Treat the soil at the rate of 4 gallons of dilution per 10 linear feet per foot of depth of the trench. Mix the dilution thoroughly into the soil taking care to prevent liquid from running off the sheeting.</li> <li>After the treated soil has absorbed the liquid dilution, replace the soil in the trench.</li> </ol>

<b>Accessible Crawl Spaces</b>	<p>For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of dilution per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.</p> <ol style="list-style-type: none"> <li>Rod holes and trenches must not extend below the bottom of the footing.</li> <li>Rod holes must be spaced so as to achieve a continuous termiticide barrier but in no case more than 12 inches apart.</li> <li>Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The dilution must be mixed with the soil as it is replaced in the trench.</li> <li>When treating plenums or crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.</li> </ol>
<b>Inaccessible Crawl Spaces</b>	<p>For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods.</p> <ol style="list-style-type: none"> <li>To establish a horizontal barrier, apply to the soil surface, 1 gallon of dilution per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or power spray with higher pressures.</li> <li>To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of dilution per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many States have smaller intervals, so check State regulations that may apply.</li> </ol> <p>When treating plenums and crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.</p> <p>Note: Crawl spaces are to be considered inside of the structure.</p>

### FOAM APPLICATIONS FOR TERMITE CONTROL

The Transport Mikron Insecticide dilution may be converted to foam with expansion characteristics from 2 to 40 times for localized control or prevention of termites harboring in walls, under slabs or in other void areas.

Depending on the circumstances, foam applications may be used alone or in combination with liquid dilution applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid dilution volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

Use dry foam (15:1 or greater expansion ratio) for applications to wall voids and stud walls.

Use wet foam (10:1 or lower expansion ratio) for applications to soil, including applications to filled porches or voids above soil.

#### Mixing Table for Transport Mikron Insecticide Foam for Termite Control

Desired Foam Expansion Ratio	Transport Use Dilution for Termite Control	Number of Fluid Ounces	Gallons of Water	Finished Foam (Gallons)
5:1	0.11%	6.25	5.0	25
10:1		3.13	2.5	
15:1		2.08	1.66	
20:1		1.56	1.25	
25:1		1.25	1.0	

<b>Application Under Slabs or to Soil in Crawlspaces to Prevent or Control Termites and other Listed Indoor Household Pests (see Household Pest Control Indoor Section for Complete Pest List)</b>	<p>Application may be made using Transport Mikron Insecticide foam alone or in combination with liquid dilution. The equivalent of at least 4 gallons of dilution per 10 linear feet (vertical barrier), or at least 1 gallon of dilution per 10 square feet (horizontal barrier) must be applied either as dilution, foam, or a combination of both.</p>
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### Termite Control

The purpose of the applications described below is to kill termite workers or winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.

<b>Exposed Workers and Winged Reproductives</b>	<p>To control exposed workers and winged reproductive termites in localized areas, apply 0.11% dilution of Transport Mikron Insecticide as a pinstream, spot, or crack and crevice spray on the outside of buildings, porches, wooden decks and patios, wooden fences around buildings, window frames, doorways, foundations, eaves, patios, garages, and other building where you may find these pests. Spray infested areas until thoroughly wet, avoiding dripping and runoff. Applications may also be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector, into damaged wood or wall voids. All treatment holes drilled in construction elements in commonly occupied areas of structures must be securely plugged after treatment.</p>
<b>Termite Carton Nests in Building Voids</b>	<p>To control termite carton nests in building voids, apply 0.11% dilution of Transport Mikron Insecticide as a liquid or foam using a pointed injection tool. Multiple injection points and varying depths of injection may be necessary to achieve control. When possible, the carton nest material should be removed from the building void after treatment.</p>
<b>Termite Carton Nests in Trees</b>	<p>Termite carton nests in trees may be injected with a dilution or sufficient volume of foam using a pointed injection tool. Multiple injection points to varying depths may be necessary. In some instances, a perimeter application of the dilution applied to soil around the root flare of the tree may be necessary to prevent re-infestation by termites in the soil. Apply liquid or foam to the voids in the tree to fill the voids.</p>

### Sand Barrier Installation and Treatment

Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move Transport Mikron Insecticide treated soil. Susceptible cracks and spaces can be filled with builder's or play box sand and the sand treated with Transport Mikron Insecticide. The sand should be treated as soil following the termiticide rate listed on the Transport Mikron Insecticide label.

### Structures with Adjacent Wells/Cisterns and/or Other Water Bodies

Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

- Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.
- Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.
- When appropriate (i.e., on the water side of the structure), the treated backfill technique (described in the Excavation Technique section above) can also be used to minimize off-site movement of termiticide.

Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.

### Structures with Wells/Cisterns Inside Foundations

Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

- Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
  - Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
  - Treat the soil at the rate of 4 gallons of dilute dilution per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
  - After the treated soil has absorbed the dilution, replace the soil into the trench.
- Treat infested and/or damaged wood in place using an injection technique such as described in the "Control of Wood Infesting Insects" section of this label.

### Application in Conjunction with the Use of Termite Baits

As part of the integrated pest management (IPM) program for termite control, Transport Mikron Insecticide may be applied to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations as a spot treatment or complete barrier treatment. Applications may be made as described in the post-construction treatment section of this label.

<b>Retreatment</b>
Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors that may reduce the effectiveness of the barrier.
Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.

<b>Restrictions</b>
All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the cleanup is completed.
When treating behind veneer, care must be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.
Not for use in voids insulated with rigid foam insulation.

### Household Pest Control – Outdoor Pinstream, Spot, Crack and Crevice or Perimeter Treatment

<b>Controls</b>	Ants (including Red Imported Fire Ants and Carpenter Ants) (but excluding Pharaoh and Argentine ants), Bees, Beetles* (*Not for use in California), Biting Flies, Boxelder Bugs, Carpenter Bees, Centipedes, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Gnats, Ground-nesting (solitary) bees and wasps, Midges, Millipedes, Mosquitoes, Moths, Pillbugs, Scorpions, Silverfish, Sowbugs, Spider Mites, Spiders (including Black Widow), Springtails, Stink Bugs, Ticks (including Brown Dog Ticks), Wasps.
<b>Where to Apply</b>	Apply as a pinstream, spot, crack and crevice, or perimeter spray on and around outside surfaces of residential and non-residential buildings and structures including, exterior siding, foundations, porches, window frames, eaves, patios, garages, areas adjacent or around private homes, duplexes, townhouses, condominiums, schools, non-commercial barns (i.e., non-commercial barns are storage structures not intended for housing livestock other than pets), house trailers, apartment complexes, carports, garages, storage sheds, and other structures, and other areas where pests congregate or have been seen. While this product is not for use on turf or lawns, adjacent (i.e., perimeter) treatment is permitted as directed by the Perimeter Treatment Application Rate.
<b>Perimeter Treatment Application Rate</b>	As a perimeter treatment, apply as a continual band up to 10 foot wide around the structure and upwards along the foundation to a height of up to 3 feet and around windows, doors, other penetrations and roof eaves, soffits and overhangs. Spot treatments may be applied beyond the 10 ft-wide band around structures in areas where pests congregate or have been seen. Apply Transport Mikron Insecticide in sufficient amount of water (see Dilution Chart) to adequately cover 1,000 square feet. Dilutions may be applied at either high or low volumes. Do not apply more than 1.25 fluid ounces per 1,000 square feet.
<b>Mixing Directions</b>	When using spray rigs, fill tank 1/4 to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add Transport Mikron Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes. For backpacks and handheld sprayers, fill the tank 1/4 full with water. Add Transport Mikron Insecticide. Agitate tank gently before adding remaining water. Close application equipment. For other types of sprayers, Transport Mikron Insecticide may be mixed into full tanks of water. Fill tank with the desired volume of water and add Transport Mikron Insecticide. Close and gently shake before use to ensure proper mixing. Mix only the amount of dilution needed for application.
<b>Repeat Application</b>	Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity.
<b>Restrictions</b>	Do not water the treated area to the point of run-off. Do not make applications during rain. All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) treatment to soil or vegetation around structures; and, 2) application to building foundations, up to a maximum height of 3 feet. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only. Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

### Dilution Chart for Listed Household Pest Perimeter Barrier Applications Around Structures

Application Volume per 1,000 sq. ft.	Transport Mikron Insecticide ounces to add (%a.i.)			
	Total Mix volume			
	1 Gallon	3 Gallons	5 Gallons	10 Gallons
1 gal/1,000 sq. ft.	1.25 (0.11%)	3.75 (0.11%)	6.25 (0.11%)	12.5 (0.11%)
2 gal/1,000 sq. ft.	0.635 (0.054%)	1.88 (0.054%)	3.13 (0.054%)	6.25 (0.054%)
2.5 gal/1,000 sq. ft.	0.5 (0.043%)	1.5 (0.043%)	2.5 (0.043%)	5.0 (0.043%)
3 gal/1,000 sq. ft.	0.42 (0.036%)	1.25 (0.036%)	2.1 (0.036%)	4.2 (0.036%)
5 gal/1,000 sq. ft.	0.25 (0.022%)	0.75 (0.022%)	1.25 (0.022%)	2.5 (0.022%)

<b>Outdoor Ant Control</b>	
<b>Carpenter Ants</b>	Apply Transport Mikron Insecticide as a pinstream, spot, crack and crevice, or perimeter spray to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the Household Pest Control - Outdoor section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. Maximum control is generally achieved using the following procedure: 1) Treat non-porous surfaces with low volume applications. 2) Treat porous surfaces and vegetation with high volume applications. 3) Treat the trunks of trees that have carpenter ant trails or upon which carpenter ants are foraging by applying dilution to thoroughly wet the bark from the base of the tree to as high as possible on the trunk.
<b>Nuisance Ants Outdoors and Fire Ants</b>	For best results, locate and treat ant nests. Apply Transport Mikron Insecticide as a pinstream, spot, crack and crevice or perimeter treatment to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the Household Pest Control - Outdoor section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. Maximum control is generally achieved using the following procedure: 1) Treat non-porous surfaces with low volume applications. 2) Treat porous surfaces and vegetation with high volume applications.

### Specific Outdoor Pest Control Applications

<b>Ant and Fire Ant Mounds</b>	Drench individual mounds with 1-2 gallons of Transport Mikron Insecticide at a 0.11% dilution (see Dilution Chart) to each mound area by sprinkling the mound until it is wet and treat 3-foot out around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours.
<b>Carpenter ants in trees, utility poles, fencing, deck materials and similar structural members</b>	Drill to locate the interior infested cavity and inject or foam 0.11% dilution (see Foam Applications section) into the cavity using a sufficient volume and an appropriate treatment tool with a splash-back guard.
<b>Wood piles and stored lumber</b>	To protect firewood piles or lumber from carpenter ants (and termites), make up a 0.11% dilution (see Dilution Chart) of Transport Mikron Insecticide and apply as a spot treatment to the soil beneath where the firewood or lumber will be stacked at the rate of one gallon of dilution per 8 square feet. Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Wood can be burned as firewood or used as lumber one month after treatment.
<b>Underground Services</b>	Underground Services such as: wires, cables, utility lines, pipes, conduits, etc. Services may be within structures or located outside of structures. Soil treatment may be made using Transport Mikron Insecticide dilution to prevent attack by Termites and Ants. Apply 2 gallons of 0.11% dilution (see Dilution Chart) per 10 linear feet to the bottom of the trench and allow liquid to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services. Where soil will not accept the above-labeled volume, 1 gallon of 0.11% dilution of Transport Mikron Insecticide may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services. Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of 0.11% dilution into the soil.

**Specific Outdoor Pest Control Applications (Continued)**

<b>Posts, Poles, and Other Constructions</b>	Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation. Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of 0.11% dilution (see Dilution Chart) per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of 0.11% dilution per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.																
<b>Listed Pests Under Slabs</b>	Infestations of Arthropods, such as Ants, Cockroaches and Scorpions under slab areas may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of 0.11% dilution (see Dilution Chart) per 10 square feet or 2 gallons of 0.11% dilution per 10 linear feet.																
<b>Listed Pest Control in Crawlspace and Voids</b>	Apply Transport Mikron Insecticide 0.11% dilution (see Dilution Chart) to all surfaces in crawlspace and/or voids to control ants, fleas, roaches, scorpions, or other arthropods. Product may also be applied through insecticidal delivery systems such as piping or flexible tubing mounted under and/or around the structure as a crack and crevice or spot treatment. This treatment is not intended as a substitute for termite control. Treat surfaces to point of runoff. Keep children and pets off surface until dry.																
<b>Foam Applications for Listed Household Pest Control</b>	The Transport Mikron Insecticide dilution may be converted to foam with expansion characteristics from 2 to 40 times for localized control or prevention of pests including ants, bees, wasps or other arthropods harboring in walls, under slabs or in other void areas.  Depending on the circumstances, foam applications may be used alone or in combination with liquid dilution applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.  Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid dilution volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.  Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.  Use dry foam (15:1 or greater expansion ratio) for applications to wall voids and stud walls.  Use wet foam (10:1 or lower expansion ratio) for applications to soil, including applications to filled porches or voids above soil.																
	<b>Mixing Table for Transport Mikron Insecticide Foam for Listed Household Pest Control</b>																
	<table border="1"> <thead> <tr> <th>Desired Foam Expansion Ratio</th> <th>Transport Mikron Insecticide Use Dilution for Listed Household Pest Control</th> <th>Gallons of Water</th> <th>Finished Foam (Gallons)</th> </tr> </thead> <tbody> <tr> <td>5:1</td> <td rowspan="5">0.054% or 0.11%</td> <td>5.0</td> <td rowspan="5">25</td> </tr> <tr> <td>10:1</td> <td>2.5</td> </tr> <tr> <td>15:1</td> <td>1.66</td> </tr> <tr> <td>20:1</td> <td>1.25</td> </tr> <tr> <td>25:1</td> <td>1.0</td> </tr> </tbody> </table>	Desired Foam Expansion Ratio	Transport Mikron Insecticide Use Dilution for Listed Household Pest Control	Gallons of Water	Finished Foam (Gallons)	5:1	0.054% or 0.11%	5.0	25	10:1	2.5	15:1	1.66	20:1	1.25	25:1	1.0
	Desired Foam Expansion Ratio	Transport Mikron Insecticide Use Dilution for Listed Household Pest Control	Gallons of Water	Finished Foam (Gallons)													
5:1	0.054% or 0.11%	5.0	25														
10:1		2.5															
15:1		1.66															
20:1		1.25															
25:1		1.0															

**Household Pest Control - Indoor**

<b>Controls</b>	Ants (including Red Imported Fire Ants and Carpenter Ants) (but excluding Pharaoh and Argentine ants), Bed Bugs, Bees, Beetles* (including Carpet Beetles) (*Not for use in California), Boxelder Bugs, Centipedes, Cockroaches, Crickets, Earwigs, Firebrats, Fleas, Flies, Gnats, Midges, Millipedes, Moths, (including Cloth Moths), Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders (including Black Widow and Brown Recluse), Springtails, Stink Bugs, Ticks, Wasps.
<b>Where to Apply</b>	Apply for residual pest control in residential and non-residential buildings and structures. Apply either as a crack and crevice, pinstream, spot, coarse, low-pressure spray (25 p.s.i. or less) or with a paintbrush.  Apply to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, dishwashers, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas and other possible pest harborage sites. Do not use as a space or broadcast spray. Pay particular attention to cracks and crevices. Do not apply as a broadcast spray indoors.

**Household Pest Control - Indoor (Continued)**

<b>Application Rate</b>	Apply Transport Mikron Insecticide in sufficient amount of water (see Dilution Chart) to adequately to cover 1,000 square feet. Do not apply more than 1.25 fluid ounces per 1,000 square feet. To control Bed Bugs, apply 1.25 fluid ounces per gallon water per 1000 square feet where evidence of bed bugs occurs.  For foaming directions, please refer to <b>FOAM APPLICATIONS FOR CONTROL OF LISTED HOUSEHOLD PESTS</b> in the <b>SPECIFIC PEST CONTROL APPLICATIONS</b> section.
<b>Mixing Directions</b>	When using spray rigs, fill tank 1/4 to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add Transport Mikron Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.  For backpacks and handheld sprayers, fill the tank 1/4 full with water. Add Transport Mikron Insecticide. Agitate tank gently before adding remaining water. Close application equipment.  For other types of sprayers, Transport Mikron Insecticide may be mixed into full tanks of water. Fill tank with the desired volume of water and add Transport Mikron Insecticide. Close and shake before use to ensure proper mixing. Mix only the amount of dilution needed for application.
<b>Ants (including Carpenter Ants and Nuisance Ants) (but excluding Pharaoh and Argentine ants)</b>	Apply to areas where ants have been observed or are expected to forage. Particular attention must be given to treating entry points into the home or premises such as around doors and windows and other places where ants and ant trails may be found.  For added Carpenter Ant control, spray or foam into cracks and crevices or drill holes and spray, mist or foam into voids where Carpenter Ants or their nests are present.  When using Transport Mikron Insecticide in combination with baits, apply Transport Mikron Insecticide as instructed above, and use baits in other areas that have not been treated with Transport Mikron Insecticide.
<b>Bed Bugs</b>	To control Bed Bugs, apply 1.25 fluid ounces per gallon water per 1000 square feet where evidence of bed bugs occurs.  Thorough application must be made to crack and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, mattresses, inside empty luggage, dressers and clothes closets and carpet edges, high and low wall moldings and wallpaper edges, wall hangings, mirrors, pictures, electrical switch plates, furniture, door frames, bookcases, and window frames. For infested mattresses, remove linens and wash before reuse. Apply to tufts, seams, folds, and edges until moist. Allow to dry before remaking bed.  When treating furniture, pay special attention to tufts, folds, seams, and difficult to access areas. On furniture, do not apply to seating areas, arms, or areas where direct skin contact can occur.  Do not use this product on bed linens, pillows, or clothes. Remove all clothes and other articles from luggage, dressers, or clothes closets before application. Allow all treated areas to thoroughly dry before use. Not recommended for use as sole protection against bed bugs.
<b>Bees and Wasps</b>	To control Bees, Wasps, Hornets, and Yellow Jackets indoors, apply in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Use 1.25 fluid ounces per gallon water per 1000 square feet.
<b>Occasional Invaders</b>	To control Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Lady Beetles, Pillbugs, and Sowbugs, apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations.
<b>Crawling and Flying Insect Pests</b>	To control Cockroaches, Crickets, Firebrats, Flies, Gnats, Midges, Moths, Scorpions, Silverfish, and Spiders, apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under dishwashers, refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.
<b>Restrictions</b>	Let surfaces dry before allowing people and pets to contact surfaces. Transport Mikron Insecticide will not stain or damage any surface that water alone will not stain or damage. Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of Transport Mikron Insecticide. Wear protective clothing: unvented goggles, gloves and a respirator approved by NIOSH, when applying to overhead areas or in poorly ventilated or confined areas. Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

## Specific Indoor Pest Control Applications

<b>Warehouses and Stores</b>	Transport Mikron Insecticide may be applied as a spot or crack and crevice treatment in non-food storage warehouses and stores. Apply no more 1.25 fluid ounces of Transport Mikron Insecticide per 1,000 square feet in sufficient volume to provide adequate coverage. Apply to all areas that may harbor pests, including under and between pallets, bins and shelves. Do not apply directly to food grain bins (interior) or animals.
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## Food/Feed Handling Establishment Applications

<b>Controls</b>	Ants (including Red Imported Fire Ants and Carpenter Ants) (but excluding Pharaoh ants and Argentine ants) Bed Bugs, Bees, Beetles* (including Carpet Beetles) (*Not for use in California), Boxelder Bugs, Centipedes, Cockroaches, Crickets, Earwigs, Firebrats, Fleas, Flies, Gnats, Midges, Millipedes, Moths, (including Cloth Moths), Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders (including Black Widow and Brown Recluse), Springtails, Stink Bugs, Ticks, Wasps
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<b>Where to Apply</b>	<p>Applications of this product are permitted in both food/feed and non-food areas of food/feed establishments as a spot or crack and crevice treatment.</p> <p>Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Including also are areas for receiving, storing, packaging (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, edible oils, syrups) or food. Service areas where food is exposed and the facility is in operation are also considered food areas.</p> <p>Permitted non-food areas of use include, garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling).</p> <p>Permitted use sites include: aircraft (do not use in aircraft cabins), apartment buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, grocery stores (do not apply directly to the interior of food grain bins) hospitals, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, pet stores (do not apply directly to the interior of food grain bins or animals), railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses and wineries.</p>
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<b>Application Rate</b>	Apply Transport Mikron Insecticide in a sufficient amount of water (see Dilution Chart) to adequately cover 1,000 square feet. Do not apply more than 1.25 ounces of Transport Mikron Insecticide per 1,000 square feet.
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<b>Spot, Crack and Crevice Application</b>	Spot or crack and crevice applications may be made while the facility is in operation; however, cover or remove food from area being treated. Do not apply directly to food.
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<b>Mixing Directions</b>	<p>When using spray rigs, fill tank ¼ to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add Transport Mikron Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.</p> <p>For backpacks and handheld sprayers, fill the tank ¼ full with water. Add Transport Mikron Insecticide. Agitate tank gently before adding remaining water. Close application equipment.</p> <p>For other types of sprayers, Transport Mikron Insecticide may be mixed into full tanks of water. Fill tank with the desired volume of water and add Transport Mikron Insecticide. Close and shake before use to ensure proper mixing. Mix only the amount of dilution needed for application.</p>
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<b>Foam Applications</b>	For foaming directions, please refer to FOAM APPLICATIONS FOR CONTROL OF LISTED HOUSEHOLD PESTS in the SPECIFIC PEST CONTROL APPLICATIONS section.
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## RESTRICTIONS

Do not apply as a perimeter treatment to areas beyond 10 feet from the foundation of the structure unless using a spot treatment.

Do not use as a space or broadcast spray.

Do not use in and around the exterior perimeter of commercial barns, stables, and paddocks. Do not use in grazing areas, feed lots or other similar areas used for housing, boarding, and/or rearing animals. This product may be used around barns and stables on residential property.

Do not apply by air.

Do not apply as a broadcast spray indoors or as a broadcast spray on lawns and turf.

Do not apply in greenhouses or nurseries.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Do not apply this product through any kind of irrigation system.

Not for use on sod farm turf, golf course turf, or grass grown for seed.

Do not apply to pets, crops, or sources of electricity.

Do not treat electrically active underground services.

Do not treat areas when food is exposed. Cover or remove food from area being treated. Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.

## Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.**

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

MIKRON and FMC – Trademarks of FMC Corporation

Transport - Trademark of Nippon Soda Co., Ltd

**SAFETY DATA SHEET**  
**TRANSPORT® MIKRON INSECTICIDE**

SDS #: 6549-A  
Revision date: 2015-04-13  
Format: NA  
Version 1.01



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** TRANSPORT® MIKRON INSECTICIDE

**Other means of identification**

**Product Code(s)** 6549-A

**Synonyms** BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name); 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name) ACETAMIPRID: (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine

**Active Ingredient(s)** Bifenthrin, Acetamiprid

**Chemical Family** Pyrethroid Pesticide, Neonicotinoid

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label

**Manufacturer Address**

FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)  
Medical Emergencies:  
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)  
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral

Category 4

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Danger**

**Hazard Statements**  
 H302 - Harmful if swallowed  
 H332 - Harmful if inhaled  
 H351 - Suspected of causing cancer  
 H370 - Causes damage to organs  
 H372 - Causes damage to organs through prolonged or repeated exposure



**Precautionary Statements - Prevention**

- P202 - Do not handle until all safety precautions have been read and understood
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P281 - Use personal protective equipment as required

**Precautionary Statements - Response**

- P321 - Specific treatment (see . ? on this label)
- P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 - Rinse mouth

**Precautionary Statements - Storage**

- P405 - Store locked up

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Family Pyrethroid Pesticide, Neonicotinoid.

Chemical name	CAS-No	Weight %
Bifenthrin	82657-04-3	6
Acetamiprid	135410-20-7	5
Propylene Carbonate S	108-32-7	5-15

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	Central nervous system effects.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Use CO <sub>2</sub> , dry chemical, or foam.
<b>Specific Hazards Arising from the Chemical</b>	
<b>Hazardous Combustion Products</b>	Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride, Chlorine, Fluorine.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
<b>Methods for Containment</b>	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
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**Storage** Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

**Incompatible products** Strong oxidizing agents. Strong acids. Strong bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

**Skin and Body Protection** Wear long-sleeved shirt, long pants, socks, and shoes.

**Hand Protection** Protective gloves

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

**General information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers These recommendations apply to the product as supplied

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance	Liquid
Physical State	Liquid
Color	No information available
Odor	No information available
Odor threshold	No information available
pH	5.51
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	110 °C / 230 °F
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No hay información disponible
Vapor density	1.064 g/mL (8.89 lb/gal)
Density	8.885 lb/gal
Specific gravity	No information available
Water solubility	No information available

Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	None under normal use conditions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride. Chlorine. Fluorine.

**11. TOXICOLOGICAL INFORMATION**

Product Information

<b>LD50 Oral</b>	1,035 mg/kg (rat)
<b>LD50 Dermal</b>	> 5,000 mg/kg (rat)
<b>LC50 Inhalation</b>	> 2.2 mg/L 4 hr (rat) - Maximum attainable concentration (zero mortality)
<b>Serious eye damage/eye irritation</b>	Mildly irritating (rabbit).
<b>Skin corrosion/irritation</b>	Non-irritating.
<b>Sensitization</b>	Non-sensitizing.

Information on toxicological effects

<b>Symptoms</b>	Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Chronic toxicity</b>	Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure. Acetamiprid: Prolonged exposure in animal studies caused nonspecific toxicity observed as decreases in body weight and food consumption.
<b>Mutagenicity</b>	Bifenthrin, Acetamiprid: Not genotoxic in laboratory studies.
<b>Carcinogenicity</b>	Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice. Acetamiprid: No evidence of carcinogenicity from animal studies.
<b>Neurological effects</b>	Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure. Acetamiprid: Caused clinical signs of neurotoxicity (decreased locomotor activity, tremors) in animal studies.
<b>Reproductive toxicity</b>	Bifenthrin: No toxicity to reproduction in animal studies. Acetamiprid: Reductions in pup weight, litter size, viability and weaning indices; delay in sexual maturity endpoints.
<b>Developmental toxicity</b>	Bifenthrin, Acetamiprid: Not teratogenic in animal studies.
<b>STOT - single exposure</b>	Causes damage to organs. See listed target organs below.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. See listed target organs below.

**Target organ effects** Bifenthrin: Central Nervous System. Acetamiprid: No specific target organ toxicity; the liver effects were considered an adaptive response to chemicals rather than frank toxicity.

**Neurological effects** Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure. Acetamiprid: Caused clinical signs of neurotoxicity (decreased locomotor activity, tremors) in animal studies.

**Aspiration hazard** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Bifenthrin (82657-04-3)**

Active Ingredient(s)	Duration	Species	Value	Units
Bifenthrin	96 h LC50	Fish	0.1	µg/L
	72 h EC50	Algae	0.822	mg/L
	48 h EC50	Crustacea	0.11	µg/L
	21 d NOEC	Fish	0.012	µg/L
	21 d NOEC	Crustacea	0.0013	µg/L

**Acetamiprid (135410-20-7)**

Active Ingredient(s)	Duration	Species	Value	Units
Acetamiprid	72 h EC50	Algae	>98.3	mg/L
	96 h LC50	Fish	>100	mg/L
	48 h LC50	Crustacea	49.8	mg/L
	21 d NOEC	Fish	19.2	mg/L
	21 d NOEC	Crustacea	5	mg/L

**Persistence and degradability** Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable. Acetamiprid: Non-persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Bifenthrin: The substance has a potential for bioconcentration. Acetamiprid: The substance does not have a potential for bioconcentration.

**Mobility** Bifenthrin: Immobile. Not expected to reach groundwater. Acetamiprid: Moderately mobile. Has some potential to reach groundwater.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

**14. TRANSPORT INFORMATION**

**DOT** This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

**TDG** Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

**UNID no** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

TRANSPORT® MIKRON INSECTICIDE

SDS #: 6549-A  
Revision date: 2015-04-13  
Version 1.01

Hazard class 9  
Packing Group III  
Marine Pollutant Bifenthrin.  
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant

ICAO/IATA

UN/ID no UN3082  
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.  
Hazard class 9  
Packing Group III  
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant

IMDG/IMO

UN/ID no UN3082  
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.  
Hazard class 9  
Packing Group III  
EmS No. F-A, S-F  
Marine Pollutant Bifenthrin  
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant

**15. REGULATORY INFORMATION**

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Bifenthrin - 82657-04-3	82657-04-3	6	1.0

SARA 311/312 Hazard Categories

Acute health hazard Yes  
Chronic health hazard Yes  
Fire hazard No  
Sudden release of pressure hazard No  
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

FIFRA Information

*This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:*

**CAUTION**

*Harmful if swallowed. Causes moderate eye irritation.  
This pesticide is extremely toxic to wildlife, fish, and aquatic invertebrates.*

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Bifenthrin 82657-04-3	X		

**International Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Bifenthrin 82657-04-3 ( 6 )				X	X	X		
Acetamiprid 135410-20-7 ( 5 )					X	X		
Propylene Carbonate S 108-32-7 ( 5-15 )	X	X	X	X	X	X	X	X

Mexico - Grade

Moderate risk, Grade 2

WHMIS Hazard Class

D2A - Very toxic materials



**16. OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 1	Physical hazard 0	Personal Protection X

Revision date:

2015-04-13

Revision note

(M)SDS sections updated

**Disclaimer**

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Prepared By:

**TRANSPORT® MIKRON INSECTICIDE**

**SDS # : 6549-A**  
**Revision date: 2015-04-13**  
**Version 1.01**

FMC Corporation

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End of Safety Data Sheet



# Zenprox EC

- INTENDED FOR USE BY PEST MANAGEMENT PROFESSIONALS
- FOR USE INDOORS IN NON-FOOD/NON-FEED AREAS OF RESIDENTIAL AND COMMERCIAL FACILITIES
- BROAD SPECTRUM PEST CONTROL INCLUDING FLEAS AND BED BUGS
- KILLS NEWLY HATCHED BED BUG NYMPHS
- AIDS IN PREVENTING BED BUG EGG HATCH

## SPECIMEN LABEL

### ACTIVE INGREDIENTS:

Etofenprox (CAS #80844-07-1) .....16.2%

Piperonyl butoxide\* (CAS #51-03-6) .....64.8%

OTHER INGREDIENTS: .....19.0%

Total 100.0%

\* (Butyl carbityl)(6-propylpiperonyl) ether and related compounds

This formulation contains 1.4 lbs of etofenprox and 5.6 lbs of piperonyl butoxide per gallon. End use dilution is 0.25% etofenprox.

EPA Reg No.2724-804

EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Repeated exposure to etofenprox can cause skin irritation.

### FIRST AID

Call a poison control center or doctor immediately for treatment advice.

#### If swallowed

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor. *(continued on next column)*

	<ul style="list-style-type: none"> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.</p>	

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**General Directions:** ZENPROX® EC provides effective kill of fleas, cockroaches and other listed pests and can be applied as an indoor broadcast, spot, or crack and crevice treatment in homes, apartment buildings, hotels, schools, day cares, nursing homes, hospitals, office buildings, correctional facilities, commercial and industrial buildings, warehouses, non-food/non-feed handling establishments, modes of transportation, institutions.

Remove pets and birds and cover fish aquariums before spraying. Do not allow children or pets to contact treated surfaces until spray has dried. Do not apply to toys or stuffed animals or related articles. Do not apply this product in occupied patient rooms or in any rooms/areas while occupied by patients, the elderly, or infirm. Do not apply to classrooms while in use. Do not apply in institutions (including libraries, sports facilities, etc.) in the immediate area where occupants are present.

## MIXING DIRECTIONS

**ZENPROX® EC** mixes easily with water (diluent) and may be applied with most application equipment. For best results, partially fill sprayer with water (diluent), add the labeled amount of **ZENPROX® EC** and fill to the required amount of water (diluent). Diluted spray mixture may be stored overnight and used the following day, but mixture should be agitated well prior to use.

**ZENPROX® EC** in recommended dilutions is generally non-staining and should not stain surfaces that cannot be spotted or damaged by water alone, however in questionable or sensitive surfaces, apply a small amount of dilution in an inconspicuous location to evaluate. Do not apply where electrical short circuits might result. Do not enter or allow others to enter until spray has dried. Do not apply product in a way that will contact workers, other persons, or animals, either directly or through drift.

### TANK-MIXING

**ZENPROX® EC** can be mixed with EPA-registered insect growth regulators in areas where these products are registered to be applied. Please check product-specific label directions before using and the more stringent label directions will apply.

### SPECIFIC INSTRUCTIONS:

Indoor Pests			
Use <b>ZENPROX® EC</b> as a broadcast (general surface), spot, or crack and crevice treatment to control pests inside buildings, structures, and modes of transport. This includes homes, apartment buildings, hotels, schools, day cares, nursing homes, hospitals, office buildings, correctional facilities, commercial and industrial buildings, warehouses, non-food/non-feed handling establishments, rail cars, marine vessels, and institutions.			
Treatment	Specific Directions	Use Rate	Pests
Broadcast (General Surface)	Use a coarse, low pressure fan spray to apply the dilution uniformly over surfaces to be treated. Apply to carpets, floors, cabinets, cove base, and other areas where pests are located.	0.25% Etofenprox 2 fl oz/gallon of water (diluent)/1000 ft <sup>2</sup>	Ants, Bed Bugs, Carpet beetles, Cockroaches, Confused flour beetles, Centipedes, Crickets, Darkling beetles, Dermestids, Earwigs, Firebrats, Flies, Fleas, Fruit flies, Gnats, Indian meal moths, Lesser grain borers, Millipedes, Mosquitoes, Moths, Pillbugs, Red flour beetles, Sawtoothed grain beetles, Scorpions, Silverfish, Sowbugs, Spiders (Brown recluse, Black widow, others), Stink Bugs, Ticks, Wasps
Spot or Crack and Crevice	Use a coarse, low pressure spray or pin stream. Treat entry points such as around water pipes, doors, windows, and eaves. Treat areas where pests normally feed or hide such as baseboards, corners, around water pipes, cracks and crevices. Spot treat floor rugs, beneath furniture, in closets, and storage areas.	0.25% Etofenprox 2 fl oz/gallon of water (diluent)/1000 ft <sup>2</sup>	Ants, Bed Bugs, Carpet beetles, Cockroaches, Confused flour beetles, Centipedes, Crickets, Darkling beetles, Dermestids, Earwigs, Firebrats, Flies, Fleas, Fruit flies, Gnats, Indian meal moths, Lesser grain borers, Millipedes, Mosquitoes, Moths, Pillbugs, Red flour beetles, Sawtoothed grain beetles, Scorpions, Silverfish, Sowbugs, Spiders (Brown recluse, Black widow, others), Stink Bugs, Ticks, Wasps
Spot or Crack and Crevice for Bed Bugs Infesting Beds, Mattresses, Bedrooms and Sleeping Areas	Disassemble the bed frame and remove bedding. Do not apply product to bedding. Wash bedding and dry using medium to high heat to kill bed bugs. Use a coarse, low-pressure spray to apply to the bed frame, mattress and box spring. Application to mattresses and box springs is intended for treatment of seams, edges, and tufts only. Do not saturate the mattress and box spring. Do not treat the entire surface of the mattress or box spring. Allow spray to dry before using the mattress and/or box spring. Spot treat baseboards, behind pictures/wall hangings, rugs, and other articles in the bedroom or sleeping area.	0.25% Etofenprox 2 fl oz/gallon of water (diluent)/1000 ft <sup>2</sup>	Bed Bugs

Repeat treatments to infested areas as necessary, but not less than 14 days after the initial treatment.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry, and ventilated area away from humans, pets, foodstuffs, and feed. Do not store near heat or open flame. Keep from freezing.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

To the extent consistent with applicable law, Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information or in case of emergency call 1-800-248-7763.

[www.zoëcon.com](http://www.zoëcon.com)

**Wellmark International**  
1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173



# Wellmark<sup>®</sup>

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

- Product Name** • **Zoecon Zenprox EC**
- Synonyms** • 100506231; EPA Reg. No.: 2724-804; RF2129EC
- Product Description** • Straw-colored liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** • Insecticide.
- Restrictions on use** • Avoid contact with skin and eyes. Keep out of reach of children and pets. Do not take internally.

#### Details of the supplier of the safety data sheet

- Manufacturer** • Wellmark International  
1501 E. Woodfield Road 200W  
Schaumburg, IL 60173  
United States
- www.zoecon.com

#### Emergency telephone number

- Manufacturer** • 1-800-248-7763
- Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC
- Manufacturer (Transportation)** • 1-703-527-3887 - CHEMTREC Outside US Collect Calls accepted

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

- OSHA HCS 2012** • Skin Irritation 2  
Eye Mild Irritation 2B  
Acute Toxicity Oral 4

#### Label elements

OSHA HCS 2012

**WARNING**



- Hazard statements** • Harmful if swallowed  
 Causes skin irritation  
 Causes eye irritation

**Precautionary statements**

- Prevention** • Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves.
- Response** • **IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
 Rinse mouth.  
**IF ON SKIN:** Wash with plenty of soap and water.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Other hazards**

- OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Section 3 - Composition/Information on Ingredients**

**Substances**

- Material does not meet the criteria of a substance.

**Mixtures**

**Composition**

Chemical Name	Identifiers	%
Etofenprox	CAS:80844-07-1	16.2%
Piperonyl butoxide	CAS:51-03-6	64.8%
2-Ethylhexanol	CAS:104-76-7	2.31% TO 2.97%
Other ingredients	NDA	> 16%

**Section 4: First-Aid Measures**

**Description of first aid measures**

- Inhalation** • **IF INHALED:** If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms persist.
- Skin** • **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye** • **IF IN EYES:** Rinse with water for several minutes. Get medical attention if symptoms occur.
- Ingestion** • **IF SWALLOWED:** Do not induce vomiting unless told to by a poison control center or doctor. Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

- Causes skin irritation. Causes eye irritation. Harmful if swallowed. Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

- Notes to Physician
- Treat symptomatically and supportively.

**Section 5: Fire-Fighting Measures**

**Extinguishing media**

- Suitable Extinguishing Media** • Use water fog, foam, carbon dioxide, or dry chemical.

- Unsuitable Extinguishing Media** • Avoid heavy hose streams.

**Special hazards arising from the substance or mixture**

- Unusual Fire and Explosion Hazards** • No data available.

- Hazardous Combustion Products** • Thermal decomposition may release toxic fumes which may include carbon dioxide and carbon monoxide.

**Advice for firefighters**

- Wear positive pressure self-contained breathing apparatus (SCBA).

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

- Personal Precautions** • Use appropriate Personal Protective Equipment (PPE). Ventilate enclosed areas. Avoid contact with skin and eyes.

- Emergency Procedures** • Ventilate closed spaces before entering. Avoid release into the environment.

**Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

- Containment/Clean-up Measures** • Stop leak if you can do it without risk.  
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.  
LARGE SPILLS: Dike far ahead of spill for later disposal.

**Section 7 - Handling and Storage**

**Precautions for safe handling**

- Handling** • Use good safety and industrial hygiene practices. Avoid contact with skin or eyes.

**Conditions for safe storage, including any incompatibilities**

- Storage** • Keep this product in its tightly closed original container, when not in use. Store in a cool, dry area that is inaccessible to children and pets. Protect from freezing or high temperatures.

**Section 8 - Exposure Controls/Personal Protection**

**Control parameters**

**Exposure controls**

- Engineering** • Use adequate ventilation to remove vapors (fumes, dust etc)

**Measures/Controls****Personal Protective Equipment****Pictograms****Respiratory**

- In case of insufficient ventilation, use NIOSH approved respiratory protection.

**Eye/Face**

- Wear chemical splash safety goggles.

**Hands**

- Wear protective gloves.

**Skin/Body**

- It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

**Section 9 - Physical and Chemical Properties****Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Straw-colored liquid.
Color	Straw colored.	Odor	Faint petroleum.
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	5.09 @ 25 C(77 F)
Specific Gravity/Relative Density	= 1.03 @ 20 C(68 F) Water=1	Water Solubility	Emulsifies
Viscosity	< 100 Centipoise (cPs, cP) or mPas @ 20 C(68 F)		
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
<b>Flammability</b>			
Flash Point	112 C(233.6 F) PMCC (Pensky-Martins Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not Flammable.		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**Section 10: Stability and Reactivity****Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Excessive heat and freezing conditions. Keep from direct sunlight.

**Incompatible materials**

- Strong oxidizing agents.

**Hazardous decomposition products**

- Thermal decomposition may produce toxic gases including carbon dioxide and carbon monoxide.

**Section 11 - Toxicological Information****Information on toxicological effects**

	CAS	
Zoecon Zenprox EC	NDA	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1750 mg/kg; Inhalation-Rat LC50 • >2.07 mg/L 4 Hour(s); Skin-Rat LD50 • >5000 mg/kg; <b>Irritation:</b> Eye-Rabbit • Moderate irritation; Skin-Rabbit • Mild irritation

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Oral 4
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met

**Route(s) of entry/exposure** • Inhalation, Skin, Eye, Ingestion.

**Potential Health Effects****Inhalation**

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

**Skin**

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • Prolonged and repeated exposure to Etofenprox can cause skin irritation.

**Eye**

- Acute (Immediate)** • Causes eye irritation.
- Chronic (Delayed)** • No data available.

**Ingestion**

- Acute (Immediate)** • Harmful if swallowed.
- Chronic (Delayed)** • No data available.

**Mutagenic Effects**

- Piperonyl butoxide was not genotoxic in several tests, including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovary (CHO) cells,

CHO/HGPRT assay with S9 activation and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. Etofenprox has been found negative for mutagenicity potential using the Ames test, chromosomal aberration and micronucleus test methods.

**Carcinogenic Effects**

- Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA. Etofenprox is not classified as carcinogen by NTP, IARC and OSHA.

**Reproductive Effects**

- Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters (except weight gain) in tests with rats and rabbits. Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments.

**Section 12 - Ecological Information**

**Toxicity**

Components		
Etofenprox (16.2%)	80844-07-1	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Sheepshead minnow</i> >0.0165 mg/L 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.0027 mg/L <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0008 mg/L 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0000188 mg/L NOEC Water Flea <i>Daphnia magna</i> 0.00017 mg/L
Piperonyl butoxide (64.8%)	51-03-6	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic] <i>Fathead minnow</i> 0.11 mg/L [Chronic LOEC] <b>Aquatic Toxicity-Crustacea:</b> <i>Daphnia magna</i> 0.047 mg/L [Chronic LOEC] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.51 mg/L [Acute] 48 Hour(s) LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute] NOEC <i>Daphnia magna</i> 0.03 mg/L [Chronic]

**Persistence and degradability**

- No data available

**Bioaccumulative potential**

- No data available.

**Mobility in Soil**

- No data available

**Other adverse effects**

- No data available.

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not empty into drains.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

**Section 14 - Transport Information**

UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
	Bulk packaging: Environmentally Hazardous			

DOT	UN3082	Substance, Liquid, n.o.s. (Etofenprox, Piperonyl butoxide)	9	III	Marine Pollutant
IMO/IMDG	UN3082	Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Etofenprox, Piperonyl butoxide)	9	III	Marine Pollutant
IATA/ICAO	UN3082	Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Etofenprox, Piperonyl butoxide)	9	III	Acute Aquatic Toxicity

**Special precautions for user** • None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No Data Available.

**Other information**

IMO/IMDG • No data available

IATA/ICAO • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • SARA Title III Section 313, Acute

### FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

#### CAUTION

**Precautionary Statements** • KEEP OUT OF THE REACH OF CHILDREN.

**Hazards to Humans and Domestic Animals** • Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Repeated exposure to etofenprox can cause skin irritation.

**First Aid** • Call a poison control center or doctor immediately for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything mouth to an unconscious person. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

#### Inventory

Component	CAS	TSCA
2-Ethylhexanol	104-76-7	Yes
Etofenprox	80844-07-1	No
Piperonyl butoxide	51-03-6	Yes

### United States

#### Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• 2-Ethylhexanol

104-76-7

Not Listed

• Etofenprox	80844-07-1	Not Listed
• Piperonyl butoxide	51-03-6	1.0 % de minimis concentration

### Section 16 - Other Information

- Revision Date** • 25/November/2015
- Last Revision Date** • 25/November/2015
- Preparation Date** • 25/November/2015
- Disclaimer/Statement of Liability** • The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.**



# LIQUA-TOX® II

## SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA  
Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE:  
January 2016

PREPARED BY:  
CAR

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** LIQUA-TOX® II  
**EPA Registration Number:** 12455-61  
**Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses:** Anticoagulant Rodenticide - Ready to use  
**Uses advised against:** Use only for the purpose described above

**MANUFACTURER/SUPPLIER:**

Bell Laboratories, Inc.  
3699 Kinsman Blvd.  
Madison, WI 53704, USA  
Email: sds@belllabs.com  
Phone: 608-241-0202  
Medical or Vet Emergency: 877-854-2494 or 952-852-4636  
Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

### SECTION 2. HAZARDS IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d):



**Signal Word/Pictogram:** WARNING

**Hazard Statement:** May be fatal if absorbed through the skin.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Sodium Diphacinone [2-(Diphenylacetyl)-1H-indene-1,3(2H)-dione, Sodium salt]	42721-99-3	0.106%
Inert and Non-Hazardous Ingredients (Unlisted components are non-hazardous)	Proprietary	99.894%

### SECTION 4. FIRST AID MEASURES

**Description of first aid measures**

**Ingestion:** Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

**Inhalation:** Not applicable.

**Eye contact:** Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, obtain medical assistance.

**Most important symptoms and effects, both acute and delayed**

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

**Advice to physician:** If ingested, administer Vitamin K<sub>1</sub> intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

**Advice to Veterinarian:** For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K<sub>1</sub>. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

**Special hazards arising from the mixture:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

**Advice for firefighters:** Wear protective clothing and self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** All handlers (including mixers and applicators) must wear coveralls over short sleeved shirt and short pants, chemical resistant footwear, socks, and water-proof gloves.

**Environmental precautions:** Do not allow bait to enter drains or water courses. Use indoors only.

### Methods and materials for containment and cleaning up

**For Containment:** Soak up spilled material on an inert absorbent. Place in properly labeled container for disposal or re-use.

**For Cleaning Up:** Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

**Reference to other sections:** Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Do not handle the product near food, animal foodstuffs or drinking water. Keep out of reach of children. Do not use near heat sources, open flame, or hot surfaces. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Conditions for safe storage, including any incompatibilities:** Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Established Limits

Component	OSHA	ACGIH	Other Limits
Diphacinone	Not Established	Not Established	Not Established

**Appropriate Engineering Controls:** Not required

**Occupational exposure limits:** Not established

### Personal Protective Equipment:

**Respiratory protection:** Not required

**Eye protection:** Not required

**Skin protection:** All handlers (including mixers and applicators) must wear coveralls over short sleeved shirt and short pants, chemical resistant footwear, socks, and water-proof gloves.

**Hygiene recommendations:** Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance/Color:</b>	Pale yellow liquid
<b>Odor:</b>	None
<b>Odor Threshold:</b>	Not applicable, odor not associated with a hazardous material.
<b>pH:</b>	Not determined
<b>Melting point:</b>	Not applicable to rodenticide bait
<b>Boiling point:</b>	100° C
<b>Flash point:</b>	Not applicable, does not contain components classified as flammable.
<b>Evaporation rate:</b>	Not determined.
<b>Flammability:</b>	Not determined
<b>Upper/lower flammability or explosive limits:</b>	Not applicable, does not contain components classified as flammable or explosive.
<b>Vapor Pressure:</b>	Not determined
<b>Vapor Density:</b>	Not determined
<b>Relative Density:</b>	1.003 g/mL @ 20°C
<b>Solubility (water):</b>	Soluble
<b>Solubility (solvents):</b>	Not determined
<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not applicable, does not contain components classified as flammable.
<b>Decomposition temperature:</b>	Not applicable to rodenticide bait
<b>Viscosity:</b>	Not determined.

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Stable when stored in original container in a cool, dry location.

**Chemical stability:** Stable when stored in original container in a cool, dry location.

**Possibility of hazardous reactions:** Refer to Hazardous decomposition products

**Conditions to avoid:** Avoid extreme temperatures (below 0°C or above 40°C).

**Incompatible materials:** Avoid strongly alkaline materials.

**Hazardous decomposition products:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute Toxicity

**LD50, oral (ingestion):** >5000 mg/kg (rats) (Diphacinone Rat LD50 oral: 2.3 mg/kg bw).

**LD50, dermal (skin contact):** > 2000 mg/kg (rats) (Diphacinone rabbit LD50 dermal: 3.6 mg/kg bw).

**LC50, inhalation:** Product is a liquid and therefore exposure by inhalation is not relevant.

**Skin corrosion/irritation:** Not irritating to skin.

**Serious eye damage/Irritation:** Not irritating to eyes.

**Respiratory or skin sensitization:** Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

**Germ cell mutagenicity:** Contains no components known to have a mutagenetic effect.

**Carcinogenicity:** Contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Diphacinone	Not listed	Not listed	Not listed

**Reproductive Toxicity:** No data

**Aspiration Hazard:** Not applicable. Product is a liquid.

**Target Organ Effects:** Reduced blood clotting ability.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Only use indoors. Do not contaminate water when disposing of equipment wash water or rinsate.

**Persistence and degradability:** Product is inherently biodegradable.

**Bioaccumulative potential:** Not determined. Diphacinone water solubility is extremely low (< 0.1mg/l).

**Mobility in Soil:** Not determined. Mobility of Diphacinone in soil is considered to be limited.

**Other adverse effects:** None.

## SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

## SECTION 14. TRANSPORT INFORMATION

**UN number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group :** Not regulated

**Environmental Hazards**

**DOT Road/Rail:** Not considered hazardous for transportation via road/rail.

**DOT Maritime:** Not considered hazardous for transportation by vessel.

**DOT Air:** Not considered hazardous for transportation by air.

**Freight Classification:** LTL Class 60

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not applicable

**Special precautions for user:** None

## SECTION 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**FIFRA:** This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.



**Signal Word:** WARNING

**Precautionary Statements:** Contains the anticoagulant Diphacinone which may cause bleeding if ingested. May be fatal if absorbed through the skin. Harmful if swallowed. Avoid breathing vapors. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing. Avoid exposure to this product during pregnancy.

**Potential Health Effects:**

**Eye Contact:** May cause irritation

**Skin Contact:** Non-irritating to the skin

**Inhalation:** Not applicable

**Ingestion:** Harmful if swallowed

**TSCA:** All components are listed on the TSCA Inventory or are not subject to TSCA requirements

**CERCLA/SARA 313:** Not listed

**CERCLA/SARA 302:** Not listed

## SECTION 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

<b>NFPA</b>	Health: 1 (caution)	Flammability: 0 (will not burn)	Reactivity: 0 (stable)	Specific Hazard: None
<b>HMIS</b>	Health: 2 (moderate)	Flammability: 0 (minimal)	Reactivity: 0 (minimal)	Protective Equipment: B

**Disclaimer:** The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.



# Advion® Cockroach

Gel bait

syngenta

## Insecticide

**FOR USE IN RESIDENTIAL,  
INSTITUTIONAL, COMMERCIAL,  
AND INDUSTRIAL AREAS**

Use sites include single and multi-family residential buildings, schools, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, food handling/storage establishments), and transportation equipment such as aircraft, trains, ships, boats, buses.

**KEEP OUT OF REACH  
OF CHILDREN  
CAUTION/  
PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**DO NOT TREAT AREAS THAT ARE  
EASILY ACCESSIBLE TO CHILDREN  
AND PETS**

*Active Ingredient:*  
Indoxacarb: (S)-methyl 7-chloro-2,5-dihydro-2-[[[methoxycarbonyl]4(trifluoromethoxy)phenyl]amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a-(3H)carboxylate . . . . . 0.6%

*Other Ingredients* . . . . . 99.4%  
*Total:* . . . . . 100.0%

EPA Reg. No. 100-1484  
EPA Est. 54450-IL-001ABW  
EPA Est. 65335-RI-001NSP  
(Superscript is first three letters of batch code on container)

Product of USA  
SCP 1484A-L1A 0414  
4038855

**4 x 1.06 oz. (30g)  
syringes**

Net Weight  
Non-refillable Container



(01) 0 07 02941 53206 9

## Advion® Cockroach Gel Bait

### FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance  
(Human or Animal) Or Chemical Emergency Assistance  
(Spill, Leak, Fire or Accident) Call 1-800-888-8372

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

#### Physical and Chemical Hazards

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

#### PRODUCT INFORMATION

Advion® Cockroach Gel Bait is designed to control pest species of cockroaches such as German, American, Australian, Smoky-Brown, Brown, Asian, Oriental, and Brown-Banded.

#### Use Instructions and Precautions:

**Do not treat areas that are easily accessible to children and pets.**

1. Advion Cockroach Gel Bait can be used indoors or outdoors applied as a crack and crevice treatment within residential homes, industrial facilities, offices, warehouses, commercial kitchens, hospitals, schools, nursing homes, hotels, buses, trains, aircraft, retail and commercial establishments, and other areas infested with cockroaches.
2. Apply Advion Cockroach Gel Bait to areas frequented by cockroaches such as between different elements of construction, between equipment and floors, openings leading into voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, and behind and under appliances, cabinets, sinks, closets, and any other equipment that cockroaches are typically known to hide.
3. Do not apply Advion Cockroach Gel Bait to surfaces recently treated with residual sprays.
4. Do not apply residual sprays to surfaces treated with Advion Cockroach Gel Bait.
5. Inspect bait placements during follow-up inspections and apply fresh bait as needed.
6. Do not apply to surfaces that food contacts.
7. Do not allow open foods to contact gel material.

#### Treatment Rates for All Uses

- For heavy infestations of cockroaches, apply 3 to 5 spots of Advion Cockroach Gel Bait per 10 linear feet.
- For light to moderate infestations of cockroaches, apply 1-3 spots of Advion Cockroach Gel Bait per 10 linear feet.
- Each spot of ADVION® cockroach gel bait must equal about 0.5 grams (approx. 1/4" diameter)
- For all levels of cockroach infestations, when a bead of Advion Cockroach Gel Bait is used, apply a small thin bead that is less than 1/8" wide and approximately 2 inches long.

#### Indoor Use Directions

- Infested areas must be carefully inspected to determine overall infestation levels, locations of harborage areas, and most appropriate application points.
- Apply Advion Cockroach Gel Bait as a small spot of material, approximately 0.5 grams (approx. 1/4" in dia.), to areas not able to be contacted by children or pets.
- Several small applications distributed within an area are more effective than 1 or 2 applications of large quantities. In some cases a small thin bead (less than 1/8" wide and 2" long) may be appropriate such as between construction elements or other cracks and crevices.
- Indoor applications include cracks and crevices along walls or floors, behind or under equipment, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect Advion Cockroach Gel Bait placements periodically for consumption or attractiveness and reapply as needed.

## Advion® Cockroach Gel Bait

### Applications in Nonfood/Nonfeed Handling Areas

Advion Cockroach Gel Bait is designed for use as a spot or crack and crevice treatment to control cockroaches in residential structures and the non-food/non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Nonfood/non-feed areas include areas such as garbage rooms, laboratories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

### Applications in Food/Feed Handling Areas

Application to food/feed areas of food/feed handling establishments may only be made as a crack and crevice treatment only. Apply Advion Cockroach Gel Bait directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where cockroaches are found or are entering.

Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply Advion Cockroach Gel Bait to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply Advion Cockroach Gel Bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- Do not apply Advion Cockroach Gel Bait to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.
- Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of Advion Cockroach Gel Bait to exposed surfaces used for food preparation.
- If Advion Cockroach Gel Bait contacts an exposed surface, first remove as much of the gel bait as possible, then wash with soap and water.

### Outdoor Use Directions:

A thorough inspection around a structure may reveal areas where cockroaches are gaining access. Attempts should be made to remove the access. Advion Cockroach Gel Bait may also be applied as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor cockroaches, along walls, garbage holding areas, or suitable placement site acting as a cockroach harborage. Place baits in such a way as to reduce the potential of subsequent human contact. Inspect Advion Cockroach Gel Bait placements periodically and apply fresh bait as needed.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

#### Pesticide Storage

Store in cool, dry place inaccessible to children and pets.

#### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### Container Disposal

**Nonrefillable Container:** Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

## Advion® Cockroach Gel Bait

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Advion®, the ALLIANCE FRAME   
the SYNGENTA Logo and the PURPOSE ICON   
are Trademarks of a Syngenta Group Company

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For non-emergency (e.g., current product information),  
call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300  
**SCP 1484A-L1A 0414**  
**4038855**

# Safety Data Sheet



## ADVION® COCKROACH GEL BAIT

Date: 5/19/2017

Replaces: 4/13/2017

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® COCKROACH GEL BAIT**

Product No.: A20379A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Skin Sensitizer: Category 1B

Signal Word (OSHA): Warning

Hazard Statements: May cause an allergic skin reaction

Hazard Symbols:



Precautionary Statements: Avoid breathing mist, vapors, spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection.  
If on skin: Wash with plenty of soap and water.  
See Section 4 First Aid Measures.  
If skin irritation or rash occurs: Get medical advice.  
Wash contaminated clothing before reuse.  
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other inert ingredients	Other inert ingredients	Trade Secret	99.4%

# Safety Data Sheet



## ADVION® COCKROACH GEL BAIT

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methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.6%
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Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

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### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion:** If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Eye Contact:** If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact:** If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation:** If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Allergic skin reaction

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

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### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g.

## ADVION® COCKROACH GEL BAIT

Date: 5/19/2017  
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commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Conditions for safe storage, including any incompatibilities:**

Not Applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other inert ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m <sup>3</sup> 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

**Ingestion:**

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Eye Contact:**

Where eye contact is likely use dust-proof chemical goggles.

**Skin Contact:**

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

**Inhalation:**

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow gel  
 Odor: None  
 Odor Threshold: Not Available

# Safety Data Sheet



## ADVION® COCKROACH GEL BAIT

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Replaces: 4/13/2017

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pH: 6.08  
Melting point/freezing point: Not Available  
Initial boiling point and boiling range: Not Available  
Flash Point (Test Method): Not Available  
Flammable Limits (% in Air): Not Available  
Flammability: Not Available  
Vapor Pressure: Indoxacarb Technical Not Available  
Vapor Density: Not Available  
Relative Density: 1.0755 g/ml @ 68°F (20°C)  
Solubility (ies): Indoxacarb Technical Not Available  
Partition coefficient: n-octanol/water: Not Available  
Autoignition Temperature: Not Available  
Decomposition Temperature: Not Available  
Viscosity: Not Available  
Other: Not Available

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### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.  
Chemical stability: Stable under normal use and storage conditions.  
Possibility of hazardous reactions: Will not occur.  
Conditions to Avoid: None known  
Incompatible materials: None known.  
Hazardous Decomposition Products: Not Available

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### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Rash, redness or itching

Delayed, immediate and chronic effects of exposure: Allergic skin reaction

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Female Rat) :	> 5.5 mg/ft air - 4 hours
Eye Contact:	Non-Irritating (Rabbit)	

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## ADVION® COCKROACH GEL BAIT

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Skin Contact: Non-Irritating (Rabbit)  
 Skin Sensitization: A skin sensitizer (Guinea Pig)

### Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.  
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  
 Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

### Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.  
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
Other inert ingredients	No
methyl (4aS)-7-chloro-2,5-dihydro-2- [[methoxycarbonyl]4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No

### Other Toxicity Information

None

### Toxicity of Other Components

Other inert ingredients  
 Not Applicable

### Target Organs

#### Active Ingredients

Indoxacarb Technical: Nervous system

#### Inert Ingredients

Other inert ingredients: Not Applicable

## 12. ECOLOGICAL INFORMATION

### Eco-Acute Toxicity

Indoxacarb Technical:  
 Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l  
 Bird (Bobwhite Quail) LD50 Oral 98 mg/kg  
 Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

### Environmental Fate

# Safety Data Sheet



## ADVION® COCKROACH GEL BAIT

Date: 5/19/2017  
Replaces: 4/13/2017

### Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.  
Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

### 14. TRANSPORT INFORMATION

#### DOT Classification

Ground Transport - NAFTA  
Not regulated

#### Comments

Water Transport - International  
Not regulated

Air Transport  
Not regulated

### 15. REGULATORY INFORMATION

#### Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

EPA Registration Number(s):  
100-1484

#### EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

#### CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

#### RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

#### TSCA Status:

# Safety Data Sheet



## ADVION® COCKROACH GEL BAIT

Date: 5/19/2017  
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Exempt from TSCA, subject to FIFRA

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 2  
Flammability: 1  
Instability: 0

#### HMS Hazard Ratings

Health: 2  
Flammability: 1  
Physical Hazard: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/25/2013  
Revision Date: 5/19/2017 Replaces: 4/13/2017  
Section(s) Revised: 2,4,11,16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

# Tekko™ Pro

Insect Growth Regulator Concentrate

Combination Chemistry™ from Control Solutions

- Effective long-term control of fleas, roaches, flies, mosquitoes, gnats, crickets, litter beetles and ants
- Photostable for up to 14 days
- For use on furniture and carpets
- For use in animal quarters, kennels and poultry houses
- Inhibits reinfestation by fleas for up to 7 months.
- Reduces egg production in houseflies and prevents development of larvae into adults.
- Inhibits reinfestation by listed cockroaches for up to 6 months.
- One ounce treats up to 1,500 square feet; four ounces treats up to 6,000 square feet
- For indoor or outdoor use

**ACTIVE INGREDIENT:**

Pyriproxyfen <sup>1</sup> .....	1.30%
Novaluron <sup>2</sup> .....	1.30%
<b>OTHER INGREDIENTS<sup>3</sup>.....</b>	<b>97.40%</b>
<b>Total</b>	<b>100.00%</b>

<sup>1</sup>Pyriproxyfen: 2-[1-Methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine

<sup>2</sup>Contains 0.10 lbs. Novaluron per gallon.

<sup>3</sup>Contains petroleum distillate

EPA Reg. No. 53883-335

EPA Est. No. 53883-TX-002



**CONTROL  
SOLUTIONS**

incorporated

A Makhteshim-Agan Company

5903 Genoa-Red Bluff Road, Pasadena, TX 77507-1041

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID**

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give any liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.</b>	
<b>NOTE TO PHYSICIAN: Contains petroleum distillate; vomiting may cause aspiration pneumonia.</b>	

EPA Reg. No. 53883-335

EPA Est. No. 53883-TX-002

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with skin or eyes. In case of contact, flush with plenty of water. Wash with soap and warm water after use. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal or equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**For use in areas such as:**

Industrial Plants, Factories, Warehouses, Commercial Buildings, Condominiums, Apartments, Cabins, Day Care Centers, Mobile Homes, Homes, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Campsites, Gas Stations, Prisons, Rooms, Schools, Parks, Institutions, Jails, Sport Stadiums, Supermarkets, Taverns, Theaters, Morgues, Mortuaries, Crematoriums, Funeral Parlors, Mausoleums, Atriums, Attics, Bathrooms, Basements, Bedrooms, Porches, Closets, Draperies, Dressers, Kitchens, Porches, Upholstered Furniture, Cabinets, Crawl Spaces, Carpet, Campers, Garbage Areas, Garbage Cans, Patios, Garages, Gazebos, Storage Areas, Floors, Furniture, Locker Rooms, Utility Room Indoor, Utility Room Outdoor, Washrooms;

Animal Quarters (enclosed premise treatment), Cat Living Quarters (enclosed premise treatment), Dog Houses, Dog Living Quarters, Dog Kennel Runs, Kennels, Pet Bedding, Pet Carriers, Pet Grooming Parlors, Pet Sleeping Areas, Pet Stores, Pet Quarters (enclosed premise treatment), Veterinaries, Zoos;

Candy Plants, Canneries, Bakeries, Breweries, Cereal Processing Facilities, Food Processing Plants, Food and Non-Food Warehouses, Cafeterias, Indoor Eating Establishments, Grocery Stores, Institutional Dining Areas, Flour Mills, Grain Storage Facilities, Outdoor Eating Establishments, Recreational Areas Outdoors, Restaurants, Dairies, Delicatessens;

Transportation Equipment (automobiles, boxcars, buses, boats, trucks, railcars, ship cargo holds);

Outdoor Areas and Surfaces Perimeters, including: Lawns and Around Foundation Walls.

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**Precautions:**

- For best results, follow directions for specific use areas.
- Do not use this product in or on electrical equipment due to possibility of shock hazard.
- Do not excessively wet carpet, draperies and furniture.
- Always test in an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

**Restrictions:**

- When used in hospital rooms, convalescent hospital rooms, and nursing home rooms, remove patients prior to treatment.
- Ventilate treated rooms thoroughly for two (2) hours after treatment. Do not return patients to treated room until after ventilation.

READ ALL DIRECTIONS COMPLETELY BEFORE USE.

## INDOOR USE

### CONTROL OF FLEAS

The active ingredients in Tekko™ Pro are Novaturon and Pyriproxyfen, both are insect growth regulators. Insect growth hormones are naturally occurring in insects and Tekko™ Pro prevents the adult flea from developing. These properties will gradually result in the reduction and eventual elimination of the flea population. Flea eggs and flea larvae that come into contact with Tekko™ Pro will also not develop into adult fleas. Tekko™ Pro works for up to 7 months by inhibiting the development of the immature stages of the flea and preventing them from reaching the biting adult stage. Tekko™ Pro does not work on adult fleas and flea pupae that already exist.

**Note:**

- If a high population of adult fleas is present, it may be necessary to use an adulticide. Tekko™ Pro may be combined with an EPA registered flea adulticide.
- Application of Tekko™ Pro prior to the flea season will aid in reducing developing populations. Apply to areas where pets and other animals are known to frequent and where previous infestations have been known to occur to prevent the emergence of adult fleas and also control stages of fleas that don't resemble adult fleas.
- Before treatment, vacuum carpets, draperies and upholstered furniture. Dispose of vacuum bag in an outdoor trash receptacle.
- Remove pets prior to spraying treatment area.
- After treatment, do not allow children and pets into treated areas until spray has dried.

**Spray Mixing:** Prepare a diluted spray solution by adding 1 fluid ounce Tekko™ Pro per gallon of water. Partially fill the mixing container with water, add Tekko™ Pro, agitate and fill to final volume. Do not allow spray mixture to stand overnight. Agitate before each use.

**Use with an Adulticide Insecticide:** For immediate relief of adult fleas, Tekko™ Pro may be combined with an insecticide registered for control of adult fleas. This mixture will also inhibit the development of the immature stages of the flea for up to 7 months. Follow all precautions and use directions on both products. Use at the application rate specified in the table below.

**Note:** Do not allow children or pets to contact treated surfaces until spray has dried.

### CONTROL OF COCKROACHES AND CRICKETS

Tekko™ Pro will prevent nymphal cockroaches and crickets from developing into adults. After application, cockroaches with twisted wings will begin to appear indicating that they are unable to reproduce. When used as directed, cockroach and cricket populations will be eliminated. One treatment works for 6 months against hatching cockroaches and crickets.

If a high population of adult cockroaches are present, the use of an EPA registered adulticide may be necessary for immediate relief. Tekko™ Pro concentrate may be combined with a cockroach adulticide.

**Spray Mixing:** Prepare a diluted spray solution by adding 2 fluid ounces Tekko™ Pro per gallon of water. Partially fill the mixing container with water, add Tekko™ Pro, agitate and fill to the final volume. Agitate before each use. Do not allow spray mixture to stand overnight.

**Use with an Adulticide Insecticide:** For immediate relief of adult cockroaches, Tekko™ Pro may be combined with an insecticide registered for adult cockroach control. This mixture will also inhibit the development of the immature stages of the cockroach for up to 6 months. Follow all precautions and use directions on both products. Use at the application rate specified in the table below.

**Note:** This product cannot be mixed with any product containing a label prohibition against such mixing.

### **CONTROL OF STORED PRODUCT PESTS**

**(Including Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Saw-toothed Grain Beetles, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetles)**

**Spray Mixing for Surface, Spot, Crack and Crevice Application:** Prepare a diluted spray solution by adding 1.5 fluid ounces of Tekko™ Pro per gallon of water. Partially fill the mixing container with water, add Tekko™ Pro, agitate and fill to final volume. Agitate before each spray application.

### **Food Handling Establishments:**

**(Places other than private residences in which food is held, processed, prepared, or served):**

Application is limited to space, general surface, spot, and/or crack and crevice treatment in food-handling establishments where food and food products are held, prepared, processed and served. Space and general surface application may be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application. Spot, and/or crack and crevice treatments may be used while the facility is in operation provided exposed food is covered or removed from the area being treated prior to application. Food contact surfaces must be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product. Fogging applications are recommended for larger facilities including food and non-food warehouses.

**Food Serving Areas:** Tekko™ Pro may be used in food areas of food handling establishments, restaurants, or other areas where foods are commercially prepared or served. Tekko™ Pro may also be used in serving areas only when facility is not in operation or food is not exposed. Serving areas are areas where prepared foods are served, such as dining rooms. All food-processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Food areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Repeat application in 90 days.

**Non-Food Areas:** Tekko™ Pro may be used to treat nonfood areas. Nonfood areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling), walls and floors, under and between pallets, areas of machinery and equipment, mop and equipment closets, behind cabinets, under shelves and racks.

### **PREPARATION OF Adulicide and Tekko™ Pro Combination:**

Tekko™ Pro can be mixed with other EPA registered pesticides and used in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded.

**Tank Mixes:** Make applications in accordance with those use precautions and label instructions that are consistent for each product. Prepare the tank mix using the label rate of adulicide and Tekko™ Pro by adding the adulicide first and making sure it is well mixed and in suspension, then adding the correct amount of Tekko™ Pro according to the label instructions below.

**Note:** This product cannot be mixed with any product containing a label prohibition against such mixing.

## Indoor Uses

Pests	Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Control of Fleas*	General Surface Application	Low-pressure Sprayer	<p><u>Dilute spray solution:</u> 1 oz. per gal. of water</p> <p><u>Spray rate:</u> 1 gal. per 1,500 ft<sup>2</sup></p>	<p>For use on carpets, furniture, pet sleeping areas &amp; throw rugs, etc.</p> <p>Repeat treatment every 7 months as necessary.</p>
	Carpet Shampoo	Non-Heat Extracting Carpet Shampoo Equipment	<p><u>Dilute instructions on carpet shampoo:</u> 1 oz. per gal. (7.8 ml/L) of diluted shampoo</p> <p><u>Application rate:</u> 1 gal. of diluted shampoo per 1,500 ft<sup>2</sup> (139 m<sup>2</sup>)</p>	<p>May also be used with a liquid, non-heat extracting carpet shampoo application.</p> <p>Allow carpet to completely dry and vacuum thoroughly.</p>
	Kennels and Doghouses (building, resting areas, walls, floor, animal bedding & run areas)	Adjustable Hose-End Sprayer, Tank Type Sprayer, Sprinkling Can or Low Pressure Sprayer	<p><u>Dilute spray solution:</u> 1 oz. per gal. of water</p> <p><u>Spray rate:</u> 1 gal. per 1,500 ft<sup>2</sup></p>	<p>Remove animals before treating.</p> <p>Treat pets and their bedding with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program.</p> <p>Repeat Tekko™ Pro application at 7 month intervals or as needed. Follow use directions for other EPA registered products that are used in conjunction.</p> <p>Do not return animals to treated areas until spray has dried completely.</p>
Control of German, Asian, and Brown Banded Cockroaches and Crickets	General Surface Application, including Crack and Crevice	Low-pressure Sprayer	<p><u>Dilute spray solution:</u> 2 oz. per gal. of water</p> <p><u>Spray rate:</u> 1 gal. per 1,000 ft<sup>2</sup></p>	<p>Contact as many insects as possible. Thoroughly spray all areas where these pests may hide paying attention to places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets.</p> <p>Repeat treatment every 6 months as necessary.</p>

Pests	Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Control of Stored Product Pests**	General Surface Application, including Crack and Crevice Food Serving Areas/ Surfaces, Non-food Serving Areas/ Surfaces	Pressurized spray system capable of delivering a pin-point or variable spray pattern  Low Pressure Sprayer	<u>Dilute spray solution:</u> 1.5 oz. per gal. of water (11.7 ml/L)  <u>Spray rate:</u> 1 gal. per 1,500 ft <sup>2</sup> (27 ml/m <sup>2</sup> )	For treatment of food processing and food handling establishments and in food and nonfood storage warehouses repeat application in 90 days. (Places other than private residents in which food is held, processed, prepared, or served)  <b>Crack and Crevice applications</b> may be made directly to cracks and crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas. <b>Spot treatments</b> may also be made to storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas. Contact as many insects as possible.
	Fogging Appl.	ULV equipment, mechanical misting sprayers, aerosol generators, or thermal foggers	Follow the equipment manufacturer's solution preparation instructions. Tekko™ Pro may be diluted with water or petroleum distillate.  <u>Application rate:</u> 1.5 oz. (44.3 ml) per 12,000 cubic feet (340 m <sup>3</sup> )	Close area to be treated and shut off all ventilation systems. Apply the product in the air and direct fog or mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer as recommended by the equipment manufacturer or the labels of other products applied in tank mixing. Do not remain in treated area. Ventilate thoroughly before reentry.
Control of Ants	General Surface Application	Low Pressure Sprayer or Similar Application	<u>Application rate:</u> 2 oz. per gal. of water per 1,000 ft <sup>2</sup>	Apply Tekko™ Pro to interior areas of a building where ants are actively foraging. Refer to outdoor uses for associated outdoor application instructions. Tekko™ Pro may be used in a tank mix combination with an EPA registered adulticide insecticide, or as an alternating treatment with adulticide insecticide.  Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.

Pests	Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Control of Flying Insect Pests	Livestock, Poultry Housing and Pet Kennels	General Surface, Fogger/ ULV, Crack and Crevice and Spray	Application rate: 1 oz. per gal. of water per 1,500 ft <sup>2</sup>	<p>Treat all areas where flying insects may collect, rest or breed, including vertical walls, ceilings, pipes, conduit, stalls, stanchions, floors, and walkways. When Tekko™ Pro is used alone, treatments can be extended to animal bedding, manure, and other potential areas where flying insects may breed.</p> <p>For surface applications, thoroughly wet floors, walls, ceilings, doors, around windows, garbage and refuse areas. When used as directed, Tekko™ Pro will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> <li>• Do not treat birdcages or stock pens when animals are present.</li> <li>• Do not make interior applications of Tekko™ Pro in areas of facility where animals are present.</li> <li>• Do not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.</li> <li>• Do not allow animals back in treated areas of facility until treated areas have dried.</li> <li>• Do not contaminate or apply to food or foodstuffs, water or watering equipment.</li> </ul> <p>If needed, repeat 14 days after previous treatment or if heavy rainfall occurs.</p>

\* This product is just part of a complete flea control program. To further prevent the introduction of adult fleas, pets and their bedding should also be treated with an EPA registered flea and tick control product, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program.

\*\* Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Saw-toothed Grain Beetles, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetle

# OUTDOOR USE

## CONTROL OF FLEAS

Apply Tekko™ Pro dilution to areas where pets normally frequent including but not limited to under trees, ornamental plants, and shrubs. Application on soil surfaces will provide 21 days of IGR activity. If large populations of adult fleas exist, treat the lawn area with an EPA registered lawn treatment product to kill adult fleas.

Spray Mixing: To prepare a diluted spray solution, mix 1.0 fluid ounce Tekko™ Pro in a sufficient volume of water (minimum amount of water 1 gallon), depending on spray equipment used, to cover 1,000 ft<sup>2</sup>. Partially filling the sprayer with water, add Tekko™ Pro, agitate and fill with water to the final volume. Agitate before each spray.

Use with an Adulticide Insecticide: For immediate relief of adult fleas, Tekko™ Pro may be combined with an insecticide registered for control of adult fleas. This mixture will also inhibit the development of the immature stages of the flea for up to 7 months. Follow all precautions and use directions on both products. Use at the application rate specified in the table below.

## CONTROL OF FLYING INSECTS

Tekko™ Pro may be used for the control of HOUSE FLIES, STABLE FLIES, MOTHS, MOSQUITOES, NUISANCE FLIES (GNATS, MIDGES) and other similar flying pest insects such as those classified as Dipterous or Hymenopterous.

General Surface Treatments: Tekko™ Pro causes a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) treated with Tekko™ Pro cannot develop into normal adults. The use of Tekko™ Pro will result in a reduction in adult fly populations after 3-4 weeks, at the time when previously hatched adult flies have died naturally.

Tekko™ Pro may be used for control of flying insect pests in, on and around buildings as described in the use table. These areas include, but are not limited to residential, commercial, public, industrial and agricultural buildings. Tekko™ Pro may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

Treatments in Combination with an Adulticide: Use Tekko™ Pro in alternation or in a tank mix combination with an adulticide insecticide for quick knockdown and more rapid control of adult flying insect pests. As an IPM strategy, combining or alternating Tekko™ Pro with other types of chemicals, such as pyrethroid or other insecticides can reduce or prevent the development of genetic resistance to these adulticide insecticides.

## CONTROL OF COCKROACHES AND CRICKETS

Tekko™ Pro will prevent nymphal cockroaches and crickets from developing into adults. After application, cockroaches with twisted wings will begin to appear indicating that they are unable to reproduce. When used as directed, cockroach and cricket populations will be eliminated. One treatment works for 6 months against hatching cockroaches and crickets.

If a high population of adult cockroaches are present, the use of an EPA registered adulticide may be necessary for immediate relief. Tekko™ Pro concentrate may be combined with a cockroach adulticide.

Spray Mixing: Prepare a diluted spray solution by adding 2 fluid ounces Tekko™ Pro in a sufficient amount of water (minimum amount of water 1 gallon) to cover 1,000 ft<sup>2</sup>. Partially fill the mixing container

with water, add Tekko™ Pro, agitate and fill to the final volume. Agitate before each spray. Do not allow spray mixture to stand overnight.

Use with an Adulticide Insecticide: For immediate relief of adult cockroaches, Tekko™ Pro may be combined with an insecticide registered for adult cockroach control. This mixture will also inhibit the development of the immature stages of the cockroach for up to 6 months. Follow all precautions and use directions on both products. Use at the application rate specified in the table below.

**Note:** This product cannot be mixed with any product containing a label prohibition against such mixing.

**PREPARATION OF Adulticide and Tekko™ Pro Combination:**

Tekko™ Pro can be mixed with other EPA registered pesticides and used in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded.

Tank Mixes: Make applications in accordance with those use precautions and label instructions that are consistent for each product. Prepare the tank mix using the label rate of adulticide and Tekko™ Pro by adding the adulticide first and making sure it is well mixed and in suspension, then adding the correct amount of Tekko™ Pro according to the label instructions below.

**Note:** This product cannot be mixed with any product containing a label prohibition against such mixing.

## Outdoor Uses

Pests	Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Control of Fleas*	Lawns, Under Trees, Ornamental Plants & Shrubs	Adjustable Hose-End Sprayer, Tank Type Sprayer or Sprinkling can	1.0 oz. in a sufficient amount of water (minimum 1 gal.) to cover 1,000 ft <sup>2</sup>  <u>Spray rate:</u> 1 tsp. per gal. will cover 333 ft <sup>2</sup>	As a spot treatment for areas where pets normally frequent, but not limited to under trees, ornamental plants and shrubs.  <b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not allow the spray mixture to stand overnight.</li> <li>Do not spray when wind conditions could create a mist to blow back to applicator.</li> <li>Do not apply this product in or around bodies of water.</li> <li>Do not soak young or flowering plants.</li> <li>Remove animals prior to spraying treatment area.</li> <li>Do not allow animals or children to return to treated areas until spray has dried completely.</li> </ul> <p>Repeat application in 21 days.</p>
Control of Cockroaches	Perimeter Treatments	Low-pressure Sprayer	2 oz. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft <sup>2</sup> in a band 2 to 4 ft wide adjacent to & around structure.	Apply at a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Apply spray around window frames, doors, garage doors, patios, decks, carports, shutters, around garbage areas, sill plate and other areas where cockroaches may congregate.  <b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not spray into the air; only spray onto the specific use sites.</li> <li>Do not apply when windy.</li> <li>Do not apply this product in or around bodies of water.</li> </ul> <p>Repeat at 6 month intervals.</p>
Control of Ants	Perimeter or Around Foundation Walls	Low Pressure Sprayer or Similar Application	2 oz. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft <sup>2</sup>	Apply Tekko™ Pro to exterior perimeter or around foundation walls where ants are actively foraging and in a band 6-10 feet wide adjacent to the foundation wall of the building. Refer to indoor uses for associated indoor application instructions. Tekko™ Pro may be used in a tank mix combination with an EPA registered adulticide insecticide, or as an alternating treatment with adulticide insecticide.  Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.

Pests	Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Control of Flying Insect Pests	Livestock, Poultry Housing and Pet Kennels	General Surface, Fogger/ ULV, Crack and Crevice and Spray	1 oz. per gal. of water per 1,500 ft <sup>2</sup>	<p>Apply to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or found. To help prevent infestations of buildings by flying insects, treat soil, vegetation or other substrates in a band 6-10 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage.</p> <p>For surface applications, thoroughly wet floors, walls, ceilings, doors, around windows, garbage and refuse areas. When used as directed, Tekko™ Pro will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.</p> <p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• Do not treat birdcages or stock pens when animals are present.</li> <li>• Do not make interior applications of Tekko™ Pro in areas of facility where animals are present.</li> <li>• Do not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.</li> <li>• Do not allow animals back in treated areas of facility until treated areas have dried.</li> <li>• Do not contaminate or apply to food or foodstuffs, water or watering equipment.</li> </ul> <p>If needed, repeat 14 days after previous treatment or if heavy rainfall occurs.</p>

\* This product is just part of a complete flea control program. To further prevent the introduction of adult fleas, pets and their bedding should also be treated with an EPA registered flea and tick control product.

## OTHER USES

### FOR CONTROL OF LITTER BEETLES (Such as Darkling, Hide and Carrion Beetles):

Tekko™ Pro can be applied to litter, such as in poultry houses infested with litter beetles, to break the lifecycle of these insect pests. Make uniform application of Tekko™ Pro to litter at the rate of 1 oz. of product in a sufficient amount of water (minimum of 1 gallon) to cover 1,000 ft<sup>2</sup> using a low pressure sprayer or similar applicator to achieve thorough coverage.

Remove the old litter and animals from immediate treatment area. Make surface treatment immediately after animals are removed and again just prior to new animal placement, making sure to treat areas where beetles frequently occur, such as walls, supports, cages, stalls and around feeders. Application of EPA registered adulticides, to kill adult egg-laying beetles, to walls and floors at cleanout and before reintroduction of animals, will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Cover or remove exposed food, feed, water and watering equipment.

Apply Tekko™ Pro uniformly to floor area and to walls, posts, and cage framing (birds grown in cages only). Application should also be made into cracks and crevices around insulation. Reapply after each grow-out or sanitization procedure. Make perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply Tekko™ Pro or EPA registered adulticide insecticides, or both, in a uniform band at least 1 foot up and 1-4 feet out from foundation. To maintain population control, it is advisable to maintain a year-round treatment program.

Pests	Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Control of Litter Beetles (Such as Darkling, Hide and Carrion Beetles)	Litter, General Surface Application (Including Broadcast, Spot and Crack & Crevice, and Perimeter)	Low Pressure Sprayer or Similar Application	1 oz. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft <sup>2</sup>	Do not contaminate food/feed or water.  Apply Tekko™ Pro uniformly to surface to achieve thorough coverage. Repeat application after each grow-out or sanitization procedure.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

**Pesticide Storage:** Store upright at room temperature. Avoid exposure to extreme temperatures. Store in a locked area out of reach of children and domestic animals. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance.

**Container Disposal:** If empty - Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

If partly filled: Call your local solid waste agency for disposal instructions. Unless otherwise instructed, place in trash. Never pour unused product down the drain or on the ground.

**[Commercial Language]**

**For Bulk containers: (Refillable Container)** Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

## LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. **CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

**IT IS CONTROL SOLUTIONS INC., AND SELLERS INTENTION THAT** in no event shall Control Solutions or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC., AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.



**CONTROL  
SOLUTIONS**

**incorporated**

A Makhteshim-Agan Company

5903 Gena-Red Bluff  
Pasadena, TX 77507-1041

# SAFETY DATA SHEET

## Tekko Pro

### 1. IDENTIFICATION

Product name: **Tekko Pro**  
Product type: **Insect Growth Regulator**  
EPA Registration No.: **53883-335**  
Chemical name of active ingredient(s): **Pyriproxyfen: 2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine**  
**Novaluron: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy) phenyl]-3-(2,6-difluorobenzoyl)urea**

Manufacturer/Registrant: **Control Solutions, Inc.**  
**5903 Genoa-Red Bluff**  
**Pasadena, TX 77507**

For fire, spill, and/or leak emergencies, contact Chemtrec: **Phone: 1-800-424-9300**  
For medical emergencies and health and safety inquiries, contact Safety Call: **Phone: 1-866-897-8050**  
Poison Control Center **Phone: 1-800-222-1222**

### 2. HAZARDS IDENTIFICATIONS

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Toxicity:

	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	NC	NC	4	NC	NC	NC

NC: Not classified

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

- Harmful if inhaled
- Development hazard (n-Methyl-2-pyrrolidone CAS No. 872-50-4)

PICTOGRAM:



PRECAUTIONARY STATEMENTS:

- Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and clothing, eye and face protection.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat or open flame.

## SAFETY DATA SHEET

### Tekko Pro

**STORAGE AND DISPOSAL:** See Section 7 and 13.

**OTHER HAZARDS:** See Section 11 and 12.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Pyriproxyfen	95737-68-1	1.3	NE	NE	NE	NA
Novaluron	116714-46-6	1.3	NE	NE	NE	NA
n-Methyl-2-pyrrolidone	872-50-4	20	NE	NE	10 ppm* TWA	NO

NE=Not established; NA=Not applicable.

\* Workplace Environmental Exposure Levels (WEEL)

#### 4. FIRST AID MEASURES

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International at (866) 897-8050 for emergency medical treatment information.</p>	
<p><b>NOTE TO PHYSICIAN:</b> Contain petroleum distillate, vomiting may cause aspiration pneumonia.</p>	

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** > 95°C (203°F)

**FLAMMABLE LIMITS:** Not applicable

**EXTINGUISHING MEDIA:** Water spray, fog, CO<sub>2</sub>, foam, dry chemical.

**FIRE & EXPLOSION HAZARDS:** Pesticide fires have potential to emit hazardous gases such as carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire

**FIRE-FIGHTING PROCEDURES:** Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

# SAFETY DATA SHEET

## Tekko Pro

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release irritating and toxic gases due to thermal decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Keep unnecessary personnel away. Do not touch or walk through spilled material. In case of spillage or leakages, eliminate all ignition sources. Soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes. This product is toxic to fish. Prevent entry into waterways, sewers, basements or confined areas. Use proper protective equipment to minimize exposure. Take all necessary actions to prevent and to remedy the adverse effects of the spill. Ensure that the disposal is in compliance with federal requirements and state or local regulations.

### 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Store upright at room temperature. Avoid exposure to extreme temperatures. Store in a locked area out of reach of children and domestic animals.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**HAND PROTECTION:** Chemical-resistant gloves.

**SKIN PROTECTION:** Long-sleeve shirt, long pants, shoes plus socks.

**EYE PROTECTION:** Protective eyewear or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

**RESPIRATOR REQUIREMENTS:** For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with any R, P or HE filter.

**VENTILATION:** Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

**ADDITIONAL PROTECTIVE MEASURES:**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

**USER SAFETY RECOMMENDATIONS:**

**Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 3.

**ENGINEERING CONTROLS:** Refer to product label. Minimize airborne concentrations.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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## Tekko Pro

**APPEARANCE:** Clear Light Yellow Liquid

**ODOR:** Mild Musty Odor

**pH:** 5.00 – 6.6 (1% solution)

**FLASH POINT:** > 95°C (203°F)

**DENSITY:** 0.919 g/ml (7.67 lbs./gal)

**VISCOSITY:** 7.49 cSt @ 20°C; 4.66 cSt @ 40°C

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release irritating and toxic gases due to thermal decomposition.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD<sub>50</sub> (Rat): > 5,000 mg/kg

Acute Dermal LD<sub>50</sub> (Rabbit): > 5,050 mg/kg

Acute Inhalation LC<sub>50</sub> (Rat): > 2.04 mg/L/4 hr.

Eye Irritation: Mildly Irritating

Skin Irritation: Slightly irritating

Dermal Sensitization: Not a skin sensitizer

#### SUBCHRONIC TOXICITY:

**Pyriproxyfen:** Low level of toxicity in the rat, mouse and dog indicated. Effects observed at high dose levels consisted primarily of decreased body weight; increased liver weights; histopathological changes in the liver and kidney; decreased red blood cell counts, hemoglobin and hematocrit; altered blood chemistry parameters; and, at 5000 and 10000 ppm in mice, a decrease in survival rates. The NOELs from these studies were 1000 ppm (149.4 mg/kg/day) in mice, 100 mg/kg/day in dogs and 400 ppm (23.5 mg/kg/day) in rats. In a 4 week inhalation study of Pyriproxyfen Technical in rats, decreased body weight and increased water consumption was observed at 1000 mg/m<sup>3</sup>. The NOEL in this study was 482 mg/m<sup>3</sup>. A 21-day dermal toxicity study in rats did not produce any signs of dermal or systemic toxicity at 1000 mg/kg/day.

#### CHRONIC:

**Pyriproxyfen:** has been tested in chronic studies with dogs, rats and mice. Dogs exposed to dose levels of 300 mg/kg/day or higher for 52 weeks showed overt clinical signs of toxicity, elevated levels of blood enzymes and liver damage. The NOEL in this study was 100 mg/kg/day. In a 78 week study in mice, dietary levels of 3000 ppm or greater produced gross and histopathological changes in the kidney. The NOEL in this study was 600 ppm. In a 2-year study in rats, dietary levels of 3000 ppm or greater produced decreased body weights in female rats. The NOEL in the rat study was 600 ppm.

#### CARCINOGENICITY:

**Pyriproxyfen:** No oncogenic response was produced in mice or rats.

**Novaluron:** Not carcinogenic.

#### REPRODUCTION/TERATOLOGY/DEVELOPMENTAL TOXICITY:

**Pyriproxyfen:** In the study conducted with rats, maternal toxicity (mortality, decreased body weight gain and food consumption and clinical signs of toxicity) was observed at doses of 300 mg/kg/day and greater. The maternal NOEL was 100 mg/kg/day. A transient increase in skeletal variations was observed in rat fetuses exposed to 300 mg/kg/day and greater. The NOEL for prenatal developmental toxicity was 100 mg/kg/day. An increased incidence of visceral and skeletal variations was observed postnatally at 1000 mg/kg/day. The NOEL for postnatal developmental toxicity was 300 mg/kg/day. In the study conducted with rabbits, maternal toxicity (clinical signs of

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## Tekko Pro

toxicity including one death, decreased body weight gain and food consumption, and abortions or premature deliveries) was observed at oral doses of 300 mg/kg/day or higher. The maternal NOEL was 100 mg/kg/day. No developmental effects were observed in the rabbit fetuses. The NOEL for developmental toxicity in rabbits was 1000 mg/kg/day. No effects on reproduction were produced even at 5000 ppm, the highest dose tested.

**Novaluron:** Not teratogenic in animal experiments.

### MUTAGENICITY:

**Pyriproxyfen:** Technical was negative in the following tests for mutagenicity: Ames Assay with and without S9, unscheduled DNA synthesis in HeLa S3 cells, in vitro gene mutation in V79 Chinese hamster cells, and in vitro chromosomal aberration in Chinese hamster ovary cells.

**Novaluron:** No evidence of genotoxicity.

### OTHER INGREDIENT :

#### n-Methyl-2-pyrrolidone :

**Reproductive/Developmental:** Reproductive/ developmental effects were observed in rats and rabbits. These effects occurred in the presence of maternal toxicity. The relevance of these findings to humans is unknown.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface waters present or to intertidal areas below the mean high water mark. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of equipment wash waters.

### ECOTOXICOLOGICAL INFORMATION:

**Pyriproxyfen:** Is practically non-toxic to avian species. Is moderately to highly toxic to fish and moderately to very highly toxic to aquatic invertebrate species. Practically non-toxic to bees.

**Novaluron:** Moderately toxic to avian species. Moderately toxic to fish and moderately to very highly toxic to aquatic invertebrate species. practically non-toxic to bees.

### AVIAN TOXICITY:

**Pyriproxyfen:** Oral LD<sub>50</sub> mallard duck: > 2000 mg/kg  
Oral LD<sub>50</sub> bobwhite quail: > 2000 mg/kg  
Dietary LC<sub>50</sub> mallard duck: > 5200 ppm  
Dietary LC<sub>50</sub> bobwhite quail: > 5200 ppm  
Reproduction bobwhite quail: NOEC = 600 ppm  
Reproduction mallard duck: NOEC = 600 ppm

**Novaluron:** Oral LD<sub>50</sub> mallard duck: > 2000 mg/kg  
Oral LD<sub>50</sub> bobwhite quail: > 2000 mg/kg  
Dietary LC<sub>50</sub> mallard duck: > 5310 ppm  
Dietary LC<sub>50</sub> bobwhite quail: > 5200 ppm  
Reproduction bobwhite quail: NOEL = 300 ppm  
Reproduction mallard duck: NOEL = 30 ppm

### AQUATIC ORGANISM TOXICITY:

#### Pyriproxyfen:

**Freshwater species:** LC<sub>50</sub> (96 hr.) Bluegill Sunfish: > 270 µg/l  
LC<sub>50</sub> (96 hr.) Rainbow Trout: > 325 µg/l  
LC<sub>50</sub> (21 day) Rainbow Trout: 90 µg/l  
LC<sub>50</sub> (96 hr.) Carp: 450 µg/l  
LC<sub>50</sub> (96 hr.) Killifish: 2660 µg/l  
EC<sub>50</sub> (48 hr.) Daphnia magna: 400 µg/l

**Estuarine species:** LC<sub>50</sub> (96 hr.) Sheepshead Minnow: > 1.02 ppm  
LC<sub>50</sub> (96 hr.) Mysid Shrimp: >92 µg/l

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EC<sub>50</sub> (96 hr.) Eastern Oyster: 93 ppb

### Novaluron:

**Freshwater species:** LC<sub>50</sub> (96 hr.) Bluegill Sunfish: > 960 ppb  
LC<sub>50</sub> (96 hr.) Rainbow Trout: > 1 mg/l  
LC<sub>50</sub> (21 day) Rainbow Trout: > 6.16 ppb  
EC<sub>50</sub> (48 hr.) Daphnia magna: = 0.058 mg/l

**Estuarine species:** LC<sub>50</sub> (96 hr.) Sheepshead Minnow: > 2.0 ppb  
LC<sub>50</sub> (96 hr.) Mysid Shrimp: 0.13 ppb  
EC<sub>50</sub> (96 hr.) Eastern Oyster: 1.5 ppb

### OTHER NON-TARGET ORGANISM TOXICITY:

**Pyriproxyfen:** LD<sub>50</sub> (48 hr.) > 100 ug/bee.

**Novaluron:** LD<sub>50</sub> (48 hr.) > 100 ug/bee.

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

### 14. TRANSPORT INFORMATION

#### Ground Domestic (DOT):

Non-bulk: Not regulated by DOT

**Vessel (IMDG):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (pyriproxyfen, novaluron), 9, PG III, Marine Pollutant

**Air (IATA):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (pyriproxyfen, novaluron), 9, PG III, Marine Pollutant

### 15. REGULATORY INFORMATION

#### FIFRA INFORMATION:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**CAUTION** Harmful if swallowed or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with skin or eyes. In case of contact, flush with plenty of water. Wash with soap and warm water after use. Obtain medical attention of irritation persists. Avoid contamination of feed or feedstuff.

#### SARA TITLE III CLASSIFICATION:

Section 302: Not applicable  
Section 311/312: Acute health hazard (immediate)  
Chronic health hazard  
Section 313: N-Methyl-2-pyrrolidone CAS#: 872-50-4

**CA PROPOSITION 65:** This product contains N-Methyl-2-pyrrolidone, CAS#: 872-50-4, known to the State of California to cause birth defects or other reproductive harm.

**CERCLA RQ:** Not applicable

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**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

**STATE RIGHT TO KNOW:** N-Methyl-2-pyrrolidone CAS#: 872-50-4 – MA, PA and NJ

### 16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	1	1	0 MINIMAL
FLAMMABILITY:	1	1	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

**MSDS DATE:** 2-10-2014.

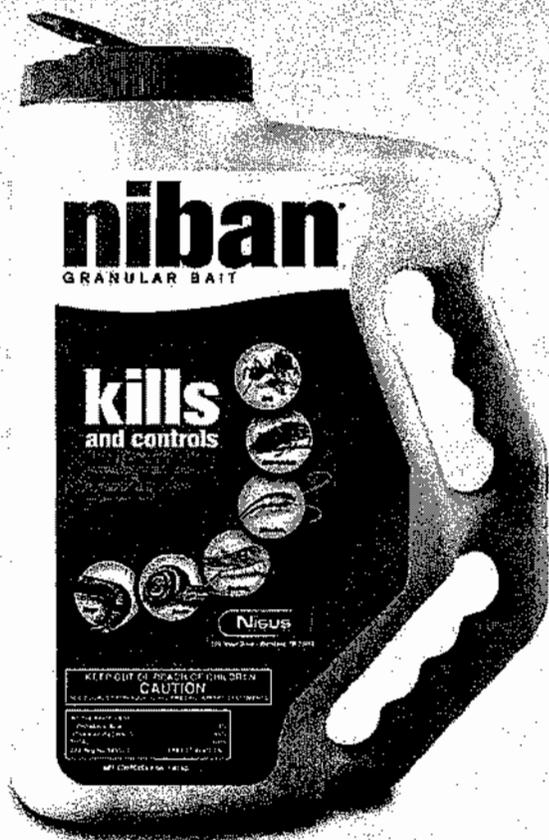
The information and recommendations contained herein are based upon data believed to be correct. However, no warranty of any kind, expressed or implied, is made with respect to the information contained herein.

Make a killing.

## Niban® Granular Bait Delivers Broad Spectrum Attack

Niban offers pest management professionals a perimeter bait that stands alone and practically eradicates call backs. Virtually odorless and weatherized, it's the industry's longest-lasting granular bait, and is the #1-selling granular bait in the U.S.

- **Kills and controls:**
  - multiple species of ants, including carpenter ants
  - cockroaches
  - crickets & mole crickets
  - silverfish
  - earwigs
  - slugs
  - snails
- Won't degrade in heat or sunlight.
- Lasts through 4" of rain and won't mold.
- Proven superior attractants.
- Broad spectrum kill.
- Kills the whole ant colony.
- Good for indoor and outdoor treatment.
- Has virtually no odor. Can be used indoors in sensitive areas.
- Non-staining formulation can be used on wood decks and concrete walkways.
- Mega-mix of attractants to increase uptake by pests year-round.
- Provides excellent perimeter treatments.
- Metaldehyde-free.
- Delivers significantly greater performance against slugs & snails than iron phosphate.
- Borate-based and formulated with a concern for the environment.
- Niban is available in 4-lb. Comfort Grip® bottles and 40-lb. boxes.



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# niban®

GRANULAR BAIT

**A Weather/Moisture Resistant Bait to Kill and Control Ants (except fire ants), Carpenter Ants, Cockroaches, Crickets, Mole Crickets, Earwigs, Silverfish, Snails and Slugs**

**ACTIVE INGREDIENT:**

Orthoboric Acid .....	5.0%
<b>OTHER INGREDIENTS</b> .....	<b>95.0%</b>
<b>TOTAL</b> .....	<b>100.0%</b>

EPA Reg. No. 64405-2

EPA Est. 64405-TN-1

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you.)

**FOR BOTH INTERIOR AND EXTERIOR USE**

For Use In and Around the following: Above-ground Transformers, Aircraft, Apartments, Apartment Buildings, Boats, Buses, Campgrounds, Camps, Cemeteries, Commercial Ornamental Nurseries, Factories, Federally Inspected (USDA) Meat and Poultry Plants, Flower Gardens, Food Handling Establishments, Food Processing Plants, Garages, Greens of Golf Courses, Grocery Stores, Groundcovers, Homes, Home Lawns, Hospitals, Hotels, Industrial Plants, In-ground Utility Boxes, Interiorscapes, Kennels, Lath Houses, Lawns, Libraries, Markets, Military Bases, Mobile Homes, Motels, New Construction, Nursing Homes, Offices, Ornamental Home Greenhouses, Ornamental Turf, Ornamentals, Other Structures, Parks, Pedestal Boxes, Pet Stores, Picnic Areas, Playing Fields, Public and Private Institutions, Recreational Turf, Recreational Vehicles, Restaurants, Restaurants (non-food areas), Schools, Sewers, Ships, Shrubs, Stores, Supermarkets, Theaters, Trains, Trucks, Utilities, Vending Machines, Warehouses, Yachts, Zoos.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

**CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and handlers must wear: Long-sleeved shirt and long pants; water-proof gloves; and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are given, use detergent and hot water.

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)) the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**First Aid**

<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on Skin:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.</p>	

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box apply only to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- coveralls
- waterproof gloves
- shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The Worker Protection Standard applies when this product is used to produce agricultural plants on farms, forests, nurseries or in greenhouses.

### GENERAL INFORMATION

This product is a ready-to-use, weather/moisture resistant bait that controls and kills Ants (except fire ants), Cockroaches, Crickets, Earwigs, Silverfish, Snails and Slugs, specifically: **ANTS:** Argentine, Carpenter, Thief, Pharaoh, Little Black, Pavement, Odorous House and Crazy Ants. **COCKROACHES:** Asian, American, Brown, Brown Banded, Smokey Brown, German and Oriental Cockroaches. **CRICKETS:** Camel, House, Field and Mole Crickets. **SNAILS AND SLUGS. EUROPEAN EARWIGS.**

Do not contaminate this product with other pesticides. If this product becomes contaminated with another pesticide it will lose its effectiveness. Do not apply directly to food and avoid contamination of feed and foodstuff. In commercial food handling facilities, cover or remove any food during application. In food handling and other areas, bait may be placed in removable bait stations. Always record the number and location of bait stations. This product is

designed to be used as a residual treatment in an Integrated Pest Management program incorporating good sanitation practices. This product may be applied in appropriate areas with a power duster (except in California). Consult equipment manufacturer for recommended settings. Keep children and pets out of treatment area until application has been completed. Do not treat pets with this product. Avoid over-application around ornamental plants and fish ponds. Do not apply this product in combination with fertilizers, other pesticides or other biologically-active materials. This product may be applied in appropriate areas with a power duster (Except in California). Consult equipment manufacturer for recommended settings. Keep children and pets out of treatment area until application has been completed. Do not treat pets with this product. Avoid over-application around ornamental plants and fish ponds. Do not apply this product in combination with fertilizers, other pesticides or other biologically-active materials.

### APPLICATION INSTRUCTIONS

**To Control and Kill Ants (except fire ants), Cockroaches, Crickets, Mole Crickets, Snails and Slugs on Campgrounds, Cemeteries, Greens of Golf Courses, Home Lawns, Lawns, Ornamental Turf, Parks, Picnic Areas, Playing Fields and Recreational Turf:** Apply bait evenly to affected areas at the rate of 2 pounds per 1,000 square feet (3.2 ounces or 2/3 cup per 100 square feet). **When treating for mole crickets:** Thoroughly irrigate treatment areas in the late afternoon prior to application. For maximum effectiveness, do not irrigate treated area immediately after application.

**Exterior Baiting to Control and Kill Snails and Slugs in Commercial Ornamental Nurseries, Flower Gardens and Around Ornamentals, Groundcovers and Shrubs:** At the beginning of the spring planting season (before damage occurs), broadcast 6 ounces per 100 square feet in areas likely to be infested with snails and slugs. It is best to apply the bait during early morning or evening when slugs and snails are present and eating. Reapply every four weeks for satisfactory control.

**To Control and Kill Snails and Slugs in Commercial Ornamental Nurseries, Ornamental Home Greenhouses and Lath Houses:** Evenly distribute granules on and under benches at the rate of 6 ounces per 100 square feet. Do not place in flats or pots.

**To Control and Kill Snails and Slugs in Interiorscapes or Ornamental Gardens:** Evenly apply bait to soil at a rate of 6 ounces per 100 square feet no more than once every 4 to 6 weeks.

**Exterior Baiting to Control and Kill Ants (except fire ants), Including Carpenter Ants, Around Apartment Buildings, Commercial Ornamental Nurseries, Food Processing Plants, Garages, Homes, Hospitals, Hotels, Kennels, Motels, Pet Stores, Public & Private Institutions, Recreational Vehicles, Restaurants, Schools, Supermarkets, Warehouses and Other**

**Structures:** Treat exterior perimeter areas of structure in a band 2 to 4 feet wide at a rate of 6 ounces per 100 square feet. Also apply product in a 2 to 4 foot band around all trees, stumps, firewood piles and other locations where carpenter ants may nest. If the nest is located in a hollow tree or stump, apply 1/2 to 1 ounce of product directly into the cavity. Apply along ant trails and in areas where ant activity has been noted.

**To Control and Kill Ants (except fire ants), Cockroaches, Crickets, Earwigs and Silverfish Within and Around the Exterior of Structures such as Apartment Buildings, Food Processing Plants (non-food areas), Garages, Homes, Hospitals, Hotels, Kennels, Motels, Pet Stores, Public & Private Institutions, Recreational Vehicles, Restaurants (non-food areas), Schools, Sewers, Stores, Supermarkets and Warehouses:** Apply at a rate of 4 pounds per 1000 square feet (6 ounces or 1 1/4 cups per 100 square feet) of surface area. Spread evenly in crawl spaces, attics, drop ceilings and cellars with dirt or gravel floors. Concentrate application in areas where insect activity is most prevalent. In attics, be sure to apply in eaves and access drains. In warehouses, garages and basements, concentrate application along walls and baseboards. This product may also be applied in inaccessible areas such as cracks and crevices where insects may hide. Apply in pits of elevator, dumbwaiter and trash chute shafts. Apply under and behind pallets and boxes in storerooms. Bait may also be placed in removable bait stations in areas accessible to insects but inaccessible to children and pets. Always record the location and number of bait stations. Regularly inspect bait stations and replace bait as needed. In sewers, apply along ledges and around manhole entrances. Treat exterior perimeter building walls in a band approximately 2 feet wide and scatter bait in flower beds, leaf litter, wood piles, trash cans and refuse areas. Reapply as necessary.

**For treating new construction:** Apply in wall voids and other areas where insects may hide.

**For perimeter treatments:** Spread bait at a rate of 6 ounces or 1-1/4 cups per 100 square feet in a band at least 2 feet wide around foundations, patios, driveways, sidewalks, entrances to homes and buildings, or other areas where insects are present. Apply around landscape lighting, floodlights, street lamps or other exterior fixtures and scatter bait in flower beds, leaf litter, wood piles, trash cans and refuse areas. Reapply as necessary.

**For treating ant mounds:** Apply 1/2 to 1 ounce of this product around all ant mounds. Supplement by broadcast application in immediate area and along ant trails and in areas where ant activity has been noted.

**To Control and Kill Ants (except fire ants), Cockroaches, Crickets, Earwigs and Silverfish in:** Aircraft, Apartment Buildings, Apartments, Boats, Buses, Camps, Factories, Food Handling Establishments, Food Processing Plants, Garages, Grocery Stores, Homes, Hospitals, Hotels, Industrial Plants, Kennels, Libraries, Markets, Military Bases, Mobile Homes, Motels, New Construction, Nursing Homes,

**Offices, Pet Stores, Private & Public Institutions, Recreational Vehicles, Restaurants, Schools, Sewers, Ships, Supermarkets, Theaters, Trains, Trucks, Utilities, Warehouses, Yachts and Zoos:** Food area application limited to only crack and crevice treatment. Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. Apply liberally, scattering/dusting under and behind refrigerator, cooler, stove, sink, dishwasher, washing machine and dryer tubs; counters; into openings around drains, water pipes and electrical conduits; and in cracks and crevices along baseboards and corners of cabinets, counter tops, cupboards and closets. Remove all lower drawers in kitchen and bathroom cabinets, bedroom dressers and chests of drawers, then scatter/dust liberally in drawer wells. Bait may also be applied into and around areas of insect infestation of above-ground transformers, in-ground utility boxes, pedestal boxes and vending machines. Any bait visible after application must be brushed into cracks and crevices or removed. Reapply as necessary. Bait may also be placed in removable bait stations in areas accessible to insects but inaccessible to children and pets. Always record the location and number of bait stations. Regularly inspect bait stations and replace bait as needed.

**Crack and Crevice Applications in Aircraft, Apartment Buildings, Apartments, Boats, Buses, Camps, Factories, Food Handling Establishments, Food Processing Plants, Garages, Grocery Stores, Homes, Hospitals, Hotels, Industrial Plants, Kennels, Libraries, Markets, Military Bases, Mobile Homes, Motels, New Construction, Nursing Homes, Offices, Pet Stores, Private & Public Institutions, Recreational Vehicles, Restaurants, Schools, Sewers, Ships, Supermarkets, Theaters, Trains, Trucks, Utilities, Warehouses, Yachts and Zoos:** Crack and crevice applications may be made using most types of dust applicators. A bellows type duster works best. Insert stem into gaps, cracks and crevices and apply 2 to 6 puffs per lineal foot, depending upon the severity of the infestation. Drill small holes to gain access into wall voids and under cabinets. This product may also be applied in appropriate areas with a power duster (except in California). Consult equipment manufacturer for recommended settings

**Application Sites and Directions:**

1. Apply under and behind appliances in kitchens, bathrooms and utility rooms (remove kick plates if possible).
2. Kitchen and bathroom cabinets and vanities often have a space between the floor and the bottom drawer or cabinet. If a gap exists along the top of the kickplate, dust this product into the void area. If no gaps are present, drill a small hole every two feet along the kickplate drilling at least one hole under each cabinet and apply this product through the holes.
3. Apply in voids around plumbing pipes behind water heaters and under sinks in kitchens, bathrooms,

showers and utility rooms. Pull back escutcheon plates around pipes to allow access to the void.

4. Remove electrical wall socket and switch covers and dust product around boxes and into voids. Do not apply product directly into electrical switch and outlet boxes.

5. Cracks or spaces between the wall and doorframes, cabinets, counter tops, molding or baseboards provide excellent hiding places for roaches and ants. Dust a small amount of this product into these areas wherever possible.

6. Apply under and behind vending machines. If access can be gained to the interior of the machine, apply around the interior base, being careful not to contaminate any foodstuffs.

**To Control and Kill Cockroaches, Crickets, Ants, Earwigs and Silverfish in Federally-Inspected (USDA) meat and poultry plants:** For application only in inedible product areas and non-processing areas as a crack and crevice treatment. Apply liberally to cracks and crevices in areas such as around baseboards and in closets; beneath cabinets and appliances, in and around waste containers and into openings around drains, water pipes and electrical conduits. Avoid contamination of feed and foodstuffs. Bait stations may be used. Always record the number and location of bait stations. Regularly inspect bait stations and replace bait as needed. This product is best used as a supplemental residual treatment preceded by approved spray and good sanitation practices.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Non-refillable container; do not reuse or refill this container. Completely empty container into application equipment, then offer for recycling, if available; otherwise dispose of empty container in a sanitary landfill or by incineration.

#### WARRANTY DISCLAIMER

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

#### Inherent Risks of Use

The directions for use are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of application, all of which are beyond the control of the Manufacturer. To the extent not prohibited by applicable law, the buyer/user assumes all such risks.

#### Limitation of Remedies

To the extent not prohibited by applicable law the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any patent not owned by Nisus Corporation, whether mentioned or not, without procurement of a license (if necessary) from the owner following investigation by the user.



100 Nisus Drive • Rockford, TN 37853 USA • 800-264-0870

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Issue Date: 2-16-1993

Revised: 7-1-2012

## MATERIAL SAFETY DATA SHEET

# NIBAN® GRANULAR BAIT

Health Emergencies: CHEMTREC® (800) 424-9300

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853  
(800) 264-0870 FAX: (865) 577-5825

Product Trade Name: NIBAN® GRANULAR BAIT

Product Class: Pesticide Bait

EPA Reg. No.: 64405-2

Active Ingredient: Boric Acid (5%)

CAS No.: 10043-35-3

Health Emergencies: CHEMTREC® 800-424-9300

### SECTION 2 - INGREDIENTS INFORMATION

This product contains 5% boric acid (other components are cellulose and food attractants) and is not classified as dangerous under the EC Directive 67-548/EEC and subsequent amendments.

### SECTION 3 - HEALTH HAZARD INFORMATION

**EYE CONTACT:** Avoid dust contact with eyes. May cause physical eye irritation.

**SKIN CONTACT:** Not an irritant.

**INGESTION:** This material may be harmful if large quantities are swallowed.

**INHALATION:** Breathing dust may cause irritation of nose and throat.

### SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Flush eyes for at least 15 minutes with clean water. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash with soap and water.

**INGESTION:** A small amount of Niban (up to ½ pound) will not cause harm.

If large amounts are ingested, induce vomiting and seek medical attention.

**INHALATION:** Remove victim to fresh air. Contact a physician if warranted.

### SECTION 5 - FIRE & EXPLOSION DATA

**FLASH POINT:** >451°F

**EXTINGUISHING MEDIA:** CO<sub>2</sub> dry powder, universal type foam or water.

**FIRE AND EXPLOSION HAZARDS:** None (Organic dusts mixed with air can be explosive)

**FIRE FIGHTING PROCEDURES:** Burning product produces smoke, carbon dioxide and carbon monoxide. Self-contained breathing apparatus should be used as with wood or other cellulose.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**IN CASE OF SPILL OR LEAK:** Dispose of large quantities in approved landfill. Small quantities can be placed in trash.

### SECTION 7 - HANDLING AND STORAGE

Store in dry place.

**RESPIRATORY PROTECTION:** (Not normally needed) Dust mask, if dusting or moving large quantities and producing dust.

**VENTILATION:** Exhaust to ventilate. If used in confined areas, use dust mask.

**PROTECTIVE CLOTHING:** None.

**EYE PROTECTION:** Use dust goggles.

**OTHER PROTECTIVE EQUIPMENT:** None.

### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Hazard Rating:** NFPA

**Health:** 0

**Fire:** 0

**Reactivity:** 0

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Brown, Granular Particles

**Specific Gravity:** 0.62

**Solubility in water:** N/A

**Volatile by weight:** Some slight loss of water is possible once opened.

**Odor:** None

**pH:** N/A

### SECTION 10 - STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Do not dust in air or oxygen with an ignition source. Do not mix with oxidizing agent.

**HAZARDOUS POLYMERIZATION:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** On burning - carbon dioxide and carbon monoxide.

### SECTION 11 - TOXICOLOGY

**Acute Oral LD<sub>50</sub> -** Greater than 5000 mg/kg (estimated 60,000 mg/kg)

**Acute Dermal LD<sub>50</sub> -** Greater than 2000 mg/kg (estimated >40,000 mg/kg)

**Dermal Irritation -** Not a primary irritant

**Dermal Sensitivity -** Not a sensitizer.

Borates have been shown to have some chronic toxicity in animals fed high doses, similar to that of alcohol, but this has not been found in humans.

### SECTION 12 - ECOLOGICAL INFORMATION

Breaks down naturally in the environment to provide organic matter and boron micro nutrients.

#### ECOTOXICITY DATA

**General:** Boron occurs naturally in sea water at an average concentration of 5 mg B/l and fresh water at 1 mg B/l or less. In dilute aqueous solutions the predominant boron species present is undissociated boric acid.

**Algal toxicity:**

Green algae, *Scenedesmus subspicatus*

96-hr EC<sub>10</sub> = 24 mg B/l

**Invertebrate toxicity:**

Daphnids, *Daphnia magna* Straus

48-hr LC<sub>50</sub> = 530 mg B/l

21-day NORC\_LOEC = 6-13 mg B/l

**Fish Toxicity:**

Sea water:

Dab, *Limanda limanda*

96-hr LC<sub>50</sub> = 74 mg B/l

Fresh water:

Rainbow trout, *Salmo gairdneri* (embryo-larval stage)

24-day LC<sub>50</sub> = 88 mg B/l

32-day LC<sub>50</sub> = 54 mg B/l

Goldfish, *Carassius auratus* (embryo-larval stage)

7-day LC<sub>50</sub> = 65 mg B/l

3-day LC<sub>50</sub> = 71 mg B/l

#### ENVIRONMENTAL FATE DATA

**Persistence/Degradation:** Boron is naturally occurring and ubiquitous in the environment. Niban decomposes in the environment to natural borate.

#### SECTION 13 – DISPOSAL CONSIDERATION

**DISPOSAL METHOD:** Dispose large quantities in landfill in accordance with federal, state and local regulations. Small quantities can be used as bait around homes or placed in household trash.

#### SECTION 14 – TRANSPORT INFORMATION

**INTERNATIONAL TRANSPORTATION:** *Niban Granular Bait* has no UN Number, and is not regulated under international rail, road, water or air transport regulations.

#### SECTION 15 – REGULATORY INFORMATION

**Chemical Inventory Listing:** Boric acid appears on several chemical inventory list under the U.S. EPA TSCA Inventory CAS No. 10043-35-03.

**General:** Ensure all national/local regulations for the safe handling of pesticides are observed.

#### SECTION 16 – OTHER INFORMATION

##### References:

EPA Re-registration Eligibility Decision (RED), Boric Acid and its Sodium Salts, (1993) EPA 738-R-93-017

Borates Even Safer, According to EPA, (2004)

The active ingredient in small quantities is an essential micronutrient for plants and is considered probably essential for humans.

For general information on the toxicology of borates see ECETOX Technical Report No. 63 (1995); Patty's Industrial Hygiene and Toxicology, 4<sup>th</sup> Edition Vol. 11, (1994) Chap. 42, 'Boron'.

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This information and product are furnished on the condition that the persons receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.*



100 Nisus Drive • Rockford, TN 37853 USA  
(800) 264-0870

# Crossfire® Insecticide

**Alternate Names:**

**Crossfire®**

**Crossfire® Insecticide Bed Bug Concentrate**

**CROSSFIRE® Bed Bug Concentrate**

[ ] Indicates optional wording.

- *[Kills Bed Bugs and Bed Bug Eggs*
- *Scientifically formulated to kill Pyrethroid-resistant and or Field and or Wild Bed Bug Strains*
- *Kills all bed bug life stages or entire bed bug lifecycle by Contact*
- *Kills and or Controls and or Targets Adult and Nymphs Bed Bug Life Stages*
- *Kills and or Targets all Bed Bug Life Stages: Adults, Nymphs and Eggs*
- *Kills Bed Bugs on surfaces for up to 4 weeks*
- *Reduces and or Prevents pyrethroid-resistant and susceptible Bed Bug egg hatch*
- *Residual Control and or Kill for up to 4 weeks or 30 days or 1 month begins working within minutes of exposure or application*
- *Effective for up to 30 days Post or After Application*
- *Direct contact provides control in only 5 minutes as shown in or by independent testing*
- *Fast or Quick Knockdown and Kill*
- *Patented Technology*
- *Recommended for use by Pest Control Operators or Pest Management Professionals or Commercial Applicators*
- *For use in Residential, Institutional and Commercial Facilities*
- *Approved for direct application on or onto mattresses*
- *Use as part of your existing bed bug control program*
- *Non-staining*
- *No visible residue*
- *Low odor*
- *Non-Repellent*
- *Easy to measure and mix*
- *Unique water-based formula*
- *Unique blend of active ingredients to control and or kill resistant bed bugs]*

**ACTIVE INGREDIENTS:**

Clothianidin .....	4.00%
Metofluthrin .....	0.10%
Piperonyl Butoxide* .....	10.00%
OTHER INGREDIENTS: .....	85.90%
	<u>100.00%</u>

\* (butylcarbityl) (6-propylpiperonyl) ether and related compounds

Contains 0.3409 lb. of Clothianidin, 0.0085 lb. of metofluthrin and 0.8523 lb. of piperonyl butoxide per gallon of concentrate.

[Crossfire is a trademark of Sumitomo Chemical Co., Ltd.]

## KEEP OUT OF REACH OF CHILDREN

See attached booklet [inside label] [back panel] for additional precautionary statements [and directions for use].

**PRECAUCION AL CONSUMIDOR:** Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712.	

Manufactured by:



8810 Tenth Avenue North  
Minneapolis, MN 55427

EPA Reg. No. 1021-2776

EPA Est. No. 1021-MN-2

Net Contents: 130 fl. Ounces [13 fl. Ounces]

Patent 8,889,721 [Pat. 8,889,721]

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt
- Long pants, and
- Shoes and socks

**USER SAFETY REQUIREMENTS**

- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Don't reuse them.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not apply this product in, on or around electrical equipment due to the possibility of shock hazard.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product  
in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**SHAKE WELL BEFORE EACH USE**

**FOR INDOOR USE ONLY**

Crossfire is the next generation insecticide which effectively kills Bed Bugs in both residential and commercial buildings and structures. Crossfire patented technology provides residual control for up to four weeks after application and is scientifically formulated to target [pyrethroid, wild and or field] resistant as well as susceptible Bed Bug strains. Crossfire also kills Bed Bug Nymphs and Eggs by contact. This product must be diluted with water and applied according to the mixing instructions [directions] below. Apply crossfire as an indoor crack and crevice, or direct spray application [according to application instructions] in non-food areas including but not limited to: hotels, shelters, modes of transportation, restaurants, schools, nursing homes, warehouses, offices, apartments, motels, kennels, and hospitals. Crossfire is an easy to use water-dilutable concentrate for application with hand-held, backpack or with a paintbrush. This product will not stain water-safe fabrics or surfaces, however care should be taken to test an inconspicuous area for staining prior to use.

**TO KILL BED BUGS (Adults, Nymphs and Eggs):** For best results, vacuuming surfaces is recommended prior to treatment. Spray bed bugs and eggs directly wherever possible. Apply as a pinstream, coarse spray or low pressure spray for crack and crevice, carpet perimeter, and direct spray applications in and around non-food areas where bed bugs and their eggs may hide or harbor. For example, on and around baseboards, floorboards, millwork, bed frames, headboards, wall hangings, furniture, door and window frames, walls, closets, window treatments, beneath floor coverings, as well as other non-washable items that may come in contact with bed bugs such as luggage, shoes and backpacks. If treating a pet's living environment, spray on and around pet beds, bedding, floors, sleeping areas and furnishings. This product can also be applied with a paintbrush to walls, baseboards, floorboards, behind wall hangings and other similar areas.

**MATTRESS APPLICATION:** Crossfire can be directly applied to mattress and box springs surfaces. For porous surfaces such as mattresses and carpet perimeter areas, apply until thoroughly damp but not wet. Infested bed linens should not be treated. These should be removed, tightly sealed in a plastic bag, laundered and dried at high temperatures prior to re-use. Vacuuming surfaces prior to treatment is highly recommended. Using pinstream, coarse or low pressure equipment, spray directly to mattress surface paying special attention to seams, folds, tufts and edges as well as bed frames and box springs where bed bugs harbor. Re-make bed with clean linens prior to reuse.

**USE RESTRICTIONS**

- THIS PRODUCT IS NOT FOR USE ON HUMANS OR ANIMALS
- Do not spray product directly on pets.
- Not for broadcast use.
- Do not use in commercial food/feed processing, preparation, food/feed storage or serving areas.
- In the home, all food/feed processing surfaces and utensils should be covered during treatment, or thoroughly washed before use. Cover or remove exposed food/feed.
- Remove pets, birds and cover fish aquariums before spraying.
- This product will not stain water-safe fabrics and surfaces, however care should be taken to test an inconspicuous area for staining prior to use.
- DO NOT allow adults, children or pets to enter treated area until sprays are dry.
- DO NOT apply to plants or crops.
- DO NOT treat areas when occupants are present.
- DO NOT apply as a space spray.
- DO NOT wet articles to the point of runoff or drip.
- DO NOT use treated articles until spray has dried.

[NOTE TO REVIEWER: THE FOLLOWING ARE MIXING INSTRUCTIONS FOR WHEN THE PRODUCT IS PACKAGED IN A 130 FL. OZ. CONTAINER:]

[MIXING INSTRUCTIONS]

Crossfire is packaged in a 130 fl. oz. container to produce exactly 10 finished gallons (10 doses/treatments). Pour 13 fl. oz. of the 130 fl. oz. container into 115 ounces of water to produce exactly 1 finished gallon to treat 1,000 sq. ft.

Dilution in water Active ingredients	13 fl. oz. per Gallon Final percent concentration of active ingredients
Clothianidin	0.40%
Metofluthrin	0.01%
Piperonyl Butoxide	1%
Total percent concentration of actives	1.42%

Pests	Dilution in water	Application Rate of Mixed Solution	Application Method(s)
Bed Bugs	13 fl. oz./Finished Gallon	1 Gallon/1000 sq. ft.	Apply as a coarse wet spray • Spot Treatment ]

[NOTE TO REVIEWER: THE FOLLOWING ARE MIXING INSTRUCTIONS FOR WHEN THE PRODUCT IS PACKAGED IN A 13 FL. OZ. CONTAINER:]

[MIXING INSTRUCTIONS]

Crossfire is conveniently packaged in a single dose 13 fl. oz. container. Pour the entire contents of the 13 fl. oz. container into 115 oz. of water to produce exactly 1 finished gallon to treat 1000 sq. ft.

Dilution in water Active ingredients	13 fl. oz. per Gallon Final percent concentration of active ingredients
Clothianidin	0.40%
Metofluthrin	0.01%
Piperonyl Butoxide	1%
Total percent concentration of actives	1.42%

Pests	Dilution in water	Application Rate of Mixed Solution	Application Method(s)
Bed Bugs	13 fl. oz./Finished Gallon	1 Gallon/1000 sq. ft.	Apply as a coarse wet spray • Spot Treatment ]

To prepare the diluted spray, fill the sprayer tank with half the total water to be used, add the crossfire then add the remaining water to the spray tank to achieve the final application volume. Close the spray tank and shake thoroughly to insure proper suspension. For optimal results, solution should be used within 24 hours of being prepared. Spray tank solution should be shaken prior to each use or if application is interrupted. Diluted mixture may be stored overnight.

NOTICE: This product may be tank-mixed with other insecticides. Application must conform to the use directions and precautions of both products. Prior to tank mixing, a small jar compatibility test should be conducted using the proper proportions of each product and water to ensure the physical compatibility of the mixture. Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store product in its original container. Store in a cool, dry place and avoid excess heat. Keep container tightly closed when not in use. Keep product from freezing. Diluted mixture may be stored overnight.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. In case of spill or leak on floor or paved surfaces, absorb with sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area until proper disposal can be made.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times, then offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by other approved State or Local procedures.

### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT.

**RISKS OF USING THIS PRODUCT** The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to lack of control of the target pests, resistance of the target pest to this product, injury caused by drift. Such risks of non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of MGK. The Buyer should be aware that these inherent unintended risks may impact the effectiveness of this product. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER. MGK shall not be responsible for losses or damages (including, but not limited to incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY** warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, MGK MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of MGK or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY** To the fullest extent allowed by law, MGK or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF MGK OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF MGK OR SELLER, THE REPLACEMENT OF THE PRODUCT. **PROMPT NOTICE OF CLAIM** To the extent consistent with applicable law allowing such requirements MGK must be provided Product Name/Label Number/Page # notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of application, so that an immediate inspection of the affected property can be made. To the extent consistent with applicable law if Buyer does not notify MGK of any claims, in such period, it shall be barred from obtaining any remedy. **NO AMENDMENTS** MGK and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

[Or alternate text]

**[IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MGK. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MGK MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of MGK is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, MGK disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT MGK'S ELECTION, THE REPLACEMENT OF PRODUCT.]

[Or alternate text]

[Note [Notice]: Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, seller makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, seller shall have no liability for consequential damages.]

[Or alternate text]

[Notice: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.]

[Or alternate text]

**[NOTICE TO USER**

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.]

[ ] Denotes alternate text in addition to any sub-set of the directions for use.



# SAFETY DATA SHEET

Issue Date: 01-Aug-2016

Revision Date: 01-Aug-2016

Version: 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** Crossfire® Bed Bug Concentrate  
**EPA Registration Number:** 1021-2776

### Other means of identification

**Part Code:** 3071

### Recommended use of the chemical and restrictions on use:

**Recommended Use:** Insecticide.

### Details of the supplier of the safety data sheet

**Manufacturer Address:** McLaughlin Gormley King Company  
8810 10th Avenue North  
Minneapolis, MN 55427  
**Telephone Number:** (800) 645-6466, or (763) 544-0341  
**e-Mail Address:** mgk-sds@mgk.com

**FAX #:** (763) 544-6437

### Emergency telephone numbers:

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300  
**International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

**Comments:** MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.  
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to  
(888) 740-8712, or (952) 852-9509.

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

### Label elements

#### Emergency Overview

#### **WARNING**

#### **Hazard statements**

- H332 - Harmful if inhaled
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects



Appearance: White , cream

Physical state: Liquid

Odor Sweet

**Precautionary Statements - Prevention:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response:**

P321 - Specific treatment (see Section 4/ First Aid).

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

**Precautionary Statements - Storage:**

P405 - Store locked up

P403 + P235 - Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Metofluthrin	240494-70-6	0.100
Clothianidin	210880-92-5	4.00
Piperonyl Butoxide (PBO)	51-03-6	10.0

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Aspiration pneumonia hazard: • No information available

**Description of first aid measures:****Eye contact:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin Contact:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

- Ingestion:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- Self-protection of the First Responder:** Use personal protective equipment as required.
- Note to physicians:** For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**  
 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:**  
 Caution: Use of water spray when fighting fire may be inefficient.

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO2).

**Specific hazards arising from the chemical**  
 No information available.

**Explosion data**  
**Sensitivity to Mechanical Impact:** None.  
**Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:**  
 As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b><u>NFPA</u></b>	Health hazards 2	Flammability 1	Instability 0	<b>Physical and Chemical Properties</b>
<b><u>HMIS</u></b>	Health hazards 1	Flammability 1	Physical hazards 0	- Personal protection X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Personal precautions:** Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling:** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. For more information, see product label.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. For more information, see product label.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Controls:** Safety showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Protective eyewear is recommended, but is not required.

**Skin and body protection:** Wear protective gloves and protective clothing.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

**Physical state:** Liquid  
**Appearance:** White, cream  
**Odor:** Sweet  
**Odor threshold:** No information available  
**Color (Gardner Scale):** No information available

<u>Property:</u>	<u>Values:</u>	<u>Comment: • Method</u>
pH:	4.90	@ 5% in H <sub>2</sub> O.
Melting point / freezing point:	No information available	
Boiling point / boiling range:	No information available	
Flash point:	> 93.3 °C / > 200.0 °F	Tag Closed Cup
Evaporation rate:	No information available	
Flammability (solid, gas):	No information available	
Upper flammability limit (UEL):	No information available	
Lower flammability limit (LEL):	No information available	
Vapor pressure:	No information available	
Vapor density:	No information available	
Specific Gravity:	No information available	
Water solubility:	No information available	
Partition coefficient; n-Octanol/ Water:	No information available	
Autoignition temperature:	No information available	
Decomposition temperature:	No information available	
Kinematic viscosity:	No information available	
Dynamic viscosity:	29.5 cPs @ 20°C, 22.0 cPs @ 40°C	
Refractive Index:	No information available	
<u>Other Information:</u>		
Density:	1.0281 g/cm <sup>3</sup> @ 22.5 °C	
VOC Content (%):	0.29	
<u>Miscibility/ Solubility:</u>		
Water:	Miscible	
Alcohol	Miscible	
Aromatic solvents:	Partially miscible	
Petroleum distillates:	Immiscible	

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Numerical measures of toxicity - Product Information

Oral LD <sub>50</sub>	>5,000 mg/kg (rat)
Dermal LD <sub>50</sub>	>5,000 mg/kg (rabbit)
Inhalation LC <sub>50</sub>	>2.15 mg/L, (rat; 4 hours)
Eye contact:	Non-irritating to eyes. (rabbit).
Skin Contact:	Non-irritating to the skin. (rabbit).
Sensitization:	Non-sensitizer. (guinea pig).

**Piperonyl Butoxide:** Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

**Carcinogenicity/ Oncogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

<b>Reproductive toxicity:</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>Teratogenicity:</b>	No information available.
<b>STOT - single exposure:</b>	No information available.
<b>STOT - repeated exposure:</b>	No information available.
<b>Chronic toxicity:</b>	Avoid repeated exposure.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

**Persistence and degradability**  
No information available.

**Bioaccumulation**  
No information available.

**Other adverse effects:** No information available

### Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Disposal of wastes:</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.
<b>Contaminated packaging:</b>	For more information, see product label.

<b>14. TRANSPORT INFORMATION</b>
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**DOT (Department of Transportation)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Other Shipping Information:** This material is **not** regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (*i.e.*, less-than 119 Gallons / 450 Liters).

When shipping in Bulk-quantities (*i.e.*, more than 119 Gallons / 450 Liters), please contact MGK® for the proper shipping description.

**Air (IATA/ ICAO)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Vessel (IMO/ IMDG)** Not available

<b>15. REGULATORY INFORMATION</b>
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**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

**SARA 311/312 Hazard****Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations:**

**California Proposition 65:**

This product does not contain any Proposition 65 chemicals

**U.S. EPA Label Information:**

EPA Registration Number: 1021-2776

**Difference between SDS and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

**International:**

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.**

Issue Date:	Revision Date:	Revision Note:
01-Aug-2016	01-Aug-2016	- SDS sections updated
		- 2
		- 8
		- 9
		- 11

**SDS Prepared By:**

e-Mail Address:

Troy Azzivitto, MGK® Chemistry Department.

mgk-sds@mgk.com

**Disclaimer:**

The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

End of Safety Data Sheet.

# Precor<sup>®</sup> 2625

Premise Spray

**KILLS:** Fleas, Fire ants, Argentine ants, Carpenter ants, Bed bugs, Cockroaches, Crickets, Spiders, Asian lady beetles plus other listed pests

**FOR USE IN:** Buildings and Structures Including Residential Homes, Apartments, Garages, Kennels, Non-Food/Feed Areas of Hotels, Motels, Commercial, Industrial, or Office Buildings. Also on Pet Bedding, Furniture and Other Inanimate Objects Infested with Fleas.

## SPECIMEN LABEL

### ACTIVE INGREDIENTS:

Etofenprox (CAS #80844-07-1) .....	1.00%
Tetramethrin (CAS #7696-12-0).....	0.25%
Pyrethrins (CAS #8003-34-7) .....	0.15%
Piperonyl Butoxide* (CAS #51-03-6).....	1.50%
S-Methoprene (CAS #65733-16-6).....	0.09%

**OTHER INGREDIENTS\*\***..... 97.01%

**TOTAL:**..... 100.0%

\* (butylcarbitol)(6-propylpiperonyl) ether and related compounds

\*\* Contains petroleum distillates

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See Additional Precautionary Statements and  
Directions for Use

EPA Reg. No. 89459-12

EPA Est. No. (A)11623-GA-3 (B)11623-GA-1

Circled letter in front of the EPA Est No. corresponds to the first letter in lot number on bottom of container.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Contains Petroleum Distillate. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Repeated exposure to etofenprox can cause skin irritation.

#### FIRST AID

<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give any liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
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**Note to Physician:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this product, (including health concerns, medical emergencies or pesticide incidents), you may also call 1-800-248-7763, 24 hours per day, 7 days per week.

**Personal Protective Equipment (PPE):** Applicators must wear:

- Long-sleeve shirt, • Long pants, • Shoes and socks

**User Safety Recommendations:** User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS:** This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the area.

**PHYSICAL OR CHEMICAL HAZARDS:** Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° F may cause bursting.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THE ENTIRE LABEL PRIOR TO USE. USE STRICTLY IN ACCORDANCE WITH ALL USE RESTRICTIONS AND DIRECTIONS.**

**USE RESTRICTIONS**

- Remove pets, birds and cover aquariums before spraying.
- Do not enter or allow others to enter until sprays have dried.
- Do not wet treated articles to the point of runoff.
- Do not use treated articles until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application.
- Do not apply when food is present.
- Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.
- Do not use in dairy barns.
- Do not use in aircraft cabins.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters.
- Do not make applications during rain.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack and crevice and void treatments only, except for the following permitted uses, if allowed elsewhere on this label:
  - 1) Applications to the side of a building, up to a maximum height of 3 feet above grade
  - 2) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure
  - 3) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width.

**USE INFORMATION:** Precor® 2625 Premise Spray (Precor® 2625) provides effective kill of listed pests in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use: apartment buildings, residential homes, garages, kennels, on pet bedding, furniture, and other inanimate objects infested with fleas, out buildings, barns, hospitals, and the non-food/feed areas of hotels, motels, commercial, industrial or office buildings, laboratories, mausoleums, nursing homes, private residences, schools, veterinary clinics, stores, utilities, warehouses, and in non-food areas of restaurants, food manufacturing, processing, and servicing establishments, and on transportation equipment: vessels, rail cars, aircraft (do not use in aircraft cabins), buses, trucks and trailers. Precor®, the Insect Growth Regulator ingredient in

Precor® 2625 provides 7 months' protection by preventing flea eggs from ever developing into biting fleas.

**INDOORS:** Hold container with nozzle pointed away from you. Can be used as a surface or spot, crack and crevice, or void treatment. For application as a crack and crevice spray, spray at a rate of 2 seconds per linear foot. For application as a spot spray, treat surface until slightly wet. The 360° valve allows the product to be sprayed upright or upside down to facilitate applications. Do not reapply more often than every 14 days.

To kill Cockroaches, Ants, Brown Marmoted Stink Bugs, Asian Lady Beetles, Crickets, Earwigs, Firebrats, Fleas, Silverfish, Spiders, and Sowbugs: Apply as a crack and crevice, void or spot treatment in areas where these pests crawl and hide, especially on hidden surfaces around sinks and storage areas, along and behind baseboards, around doors and windows, behind and under refrigerators, cabinets, sinks and stoves, and on the underside of shelves, drawers, bookcases and other areas where pests are seen.

Ants: (excluding Pharaoh and Harvester Ants) Spray around ant trails and mounds, doors and windows and other places where ants enter premises. Spray around nests hidden under steps, brickwork, concrete, landscape material, retaining walls, etc. Break apart accessible nests and spray on and around debris.

Fleas in Buildings: Precor® 2625 is generally non-staining, however, in questionable locations, test in an inconspicuous area before treating. Cover and unplug aquariums before spraying.

For Flea Infestations, Precor® 2625 treats 2625 sq ft. To treat carpet and other areas of suspected flea infestation, hold container upside down 2-3 feet from surface, point actuator towards the surface and push button. Using a sweeping motion, apply a light uniform spray to all surfaces of furniture, rugs, carpets, drapes, and on and around all pet resting areas. Apply to infested areas such as pet beds and pet resting quarters, nearby cracks and crevices, under the edges of rugs and floor coverings, between and under cushions of upholstered furniture and other areas where fleas may be present. A light misting is all that is required to control fleas and flea larvae. Use care when applying to hardwood floors and only use a light misting to those areas. Reapply in 14 days, if necessary.

**IMPORTANT:** Keep people and pets out of areas during treatment. Do not apply directly to pets or animals. Vacate room after treatment, and ventilate until surfaces are dry before reoccupying. To eliminate fleas/ticks on your pets, use only products approved for such uses.

House Dust Mites: Apply as a surface application to carpeting, drapes, inside and on box springs, under beds, and flooring or other harborage sites at the rate of 16 ounces per 500 ft<sup>2</sup>. Precor® 2625 may be applied as a spot treatment to mattress seams, edges, and tufts of bed only. Focus applications on seams and folds. Do not use on pillows, bed linens or clothes. Do not treat entire surface area of mattress. Allow mattress to dry thoroughly before replacing bedding. Wasps and Yellow Jackets: Apply as a crack and crevice or void application. Apply in indoor locations such as attics, steeples, mechanical rooms, barns, sheds, non-food/non-feed warehouses, garages, and carports, or in walls. Spray into crack, crevice or void areas until thoroughly wet.

Spiders (including Brown Recluse & Black Widow): Apply along voids and behind baseboards, to window and door frames, corners, pipes, storage localities, attics, crawl spaces and other areas over which these pests may crawl.

Earwigs, Flies, Mole Crickets, Pillbugs, and Sowbugs: Apply around doors and windows and other places where these pests may enter premises. Treat baseboards, storage areas and other locations where these pests are found.

Pantry Pests - Exposed Stages of Saw-toothed Grain Beetles, Flour Beetles (Red and Confused), and Cigarette Beetles: Treat exposed stages. Remove all foodstuffs, utensils and shelf paper from area to be treated. Discard used shelf paper and any infested foodstuffs. Apply spray to shelves and in cracks and crevices behind and under cupboards and cabinets. Allow spray to dry prior to replacement of shelf paper, food and utensils.

Carpet Beetles (Black, Furniture and Varied): Spray on and under edges of floor coverings, under rugs and furniture and in closets or other localities where these insects are found.

Bed Bugs – Thoroughly inspect areas of suspected bed bug infestation and note potential harborage sites or actual infestations. Precor® 2625 kills bed bugs and their eggs.

Apply on mattresses as a spot treatment to mattress seams, edges, and tufts of bed only. Focus applications on seams and folds. Do not use on pillows, bed linens or clothes. Do not treat entire surface area of mattress. Allow mattress to dry thoroughly before replacing pillows and/or bed linens.

Bed bugs may also harbor in areas of the room away from the bed. Apply as a broadcast, crack and crevice, void, or spot application where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty drawers and clothes closets, night stands, floors around the bed, and other furniture in the room, carpet edges, high and low wall moldings (such as floor molding or window casings), wall voids, behind wall hangings and mirrors, wallpaper edges and popcorn ceilings. Remove all clothes and other articles from dressers or closets before application. Take bed apart. Treat joints and channels if hollow, such as square or round tubing, and see that interior framework is treated. Apply as a surface application to carpeting, drapes, and flooring at the rate of 16 ounces per 500 ft<sup>2</sup>. Allow all treated areas to dry thoroughly before use. If evidence of bed bugs is found in/on mattresses, use products approved for full coverage.

**OUTDOORS:** Point spray nozzle away from face. Hold can on slight downward angle. For best results, spray when air is calm. Spray with wind if breeze is blowing.

**PESTS ON OUTSIDE SURFACES OF BUILDINGS –** To kill Ants (including Carpenter Ants) (except Pharaoh and Harvester Ants), Cockroaches, Brown Marmot Stink Bugs, Asian Lady Beetles, Crickets, Earwigs, Flies and Sowbugs (Pillbugs): Spray pests directly or spray foundation of buildings where insects are active and may find entrance up to a height of 2 to 3 feet and 2 to 3 feet out. For ants, spray around nests hidden under steps, brickwork, concrete, etc. Break apart accessible nests and spray on and around debris. Precor® 2625 may be applied as a spot, crack and crevice, or void treatment to outside surfaces. Do not apply as a broadcast spray. Spray outside surfaces of buildings where insects tend to congregate. Spray areas include (but are not limited to) screens, window frames, eaves, porches, patios, garages and refuse dumps. Repeat treatment as necessary but not more than once per week.

**TO KILL WASPS AND YELLOW JACKETS** under eaves, screens, window frames, doors, patios, cracks, holes or crevices wherever insects are noticed, spray for about 1 -2 seconds or until surfaces are moist. To prevent entrance of insects into the house, spray around points where insects enter such as outside plumbing, faucets, etc., and cracks or crevices in foundation up to a maximum height of 3 feet, as well as along sills and ledges.

For best results, spray in early morning or late evening when insect activity is minimal. Stand a safe distance from nest and not directly underneath. Hold can upright and point spray opening toward nest with wind at your back. Spray until nest is thoroughly saturated to kill the entire nest population. Wait at least 24 hours before removing the nest.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Do not store near heat or open flame. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Do Not Puncture or Incinerate! If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.



Central Garden & Pet Company, 1501 East Woodfield Road, 200W, Schaumburg, Illinois 60173

**NOTE:** This specimen label is for informational purposes only. All uses may not be approved in all states. See product labeling for use directions. Precor and Zoëcon with design are registered trademarks of Wellmark International. © 2015 Wellmark International.

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

- Product Name** • **Precor 2625 Premise Spray**
- Synonyms** • EPA Reg. No.: 89459-12; RF2220 Premium Aerosol II-M
- Product Description** • Neutral, glossy aerosol spray.
- Relevant identified uses of the substance or mixture and uses advised against**
- Recommended use** • Insecticide.
- Restrictions on use** •  
Keep out of the reach of children. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Use in well ventilated area. Do not take internally.

#### Details of the supplier of the safety data sheet

- Manufacturer** • Central Garden & Pet Company  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173  
United States  
  
www.zoecon.com

#### Emergency telephone number

- Manufacturer** • 1-800-424-9300 - CHEMTREC
- Manufacturer (Transportation)** • 1-703-527-3887 - Chemtrec - Outside US collect calls accepted
- Manufacturer** • 1-800-248-7763

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

- OSHA HCS 2012** • Aspiration 1  
Flammable Aerosols 2  
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects  
Compressed Gas

#### Label elements

**OSHA HCS 2012**

**DANGER**



- Hazard statements** • Flammable aerosol  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways  
 Contains gas under pressure; may explode if heated

### Precautionary statements

- Prevention** • Use only outdoors or in a well-ventilated area.  
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.  
 Do not spray on an open flame or other ignition source.  
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
 Pressurized container: Do not pierce or burn, even after use.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wash thoroughly after handling.
- Response** • IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 Do NOT induce vomiting.
- Storage/Disposal** • Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.  
 Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Protect from sunlight.

### Other hazards

#### OSHA HCS 2012

- This product is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### Mixtures

Composition		
Chemical Name	Identifiers	%
(s)-Methoprene	CAS:40596-69-8	0.09%
Pyrethrins	CAS:8003-34-7	0.15%
Tetramethrin	CAS:7696-12-0	0.25%
Etofenprox	CAS:80844-07-1	1%
Piperonyl butoxide	CAS:51-03-6	1.5%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	10%
Propane	CAS:74-98-6	14.5%

Butane	CAS:106-97-8	N/A
Other ingredients	NDA	Balance

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin

- IF ON SKIN: Wash with plenty of soap and water. Get medical attention if symptoms occur.

#### Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

#### Ingestion

- IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice.

### Most important symptoms and effects, both acute and delayed

- Aspiration hazard, may cause dizziness or drowsiness if inhaled. Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

## Section 5: Fire-Fighting Measures

### Extinguishing media

#### Suitable Extinguishing Media

- LARGE FIRE: Water spray, fog or regular foam.  
SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

#### Unsuitable Extinguishing Media

- Avoid heavy hose streams.

#### Firefighting Procedures

- Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.  
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

### Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- At temperatures above 130°F, container may rupture.  
Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

#### Hazardous Combustion Products

- Thermal degradation may produce oxides of carbon, oxides of nitrogen and/or volatile hydrocarbon vapors.

### Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

- Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Avoid breathing fumes. Ventilate enclosed areas.

**Emergency Procedures**

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid unnecessary personnel and equipment traffic in the spill area. Turn off electric power to area. As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Ventilate closed spaces before entering.

**Environmental precautions**

- Avoid run off to waterways and sewers.

**Methods and material for containment and cleaning up**

**Containment/Clean-up Measures**

- Keep away from fire, sparks and heated surfaces.  
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

**Section 7 - Handling and Storage**

**Precautions for safe handling**

**Handling**

- Do not use or store near heat or open flame. Exposure to temperatures above 130°F may cause bursting. Do not smoke while using this product. Do not allow product to freeze. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes.

**Conditions for safe storage, including any incompatibilities**

**Storage**

- Store in a cool, dry place. Keep out of reach of children. Keep away from sources of ignition – No Smoking. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep at a temperature not exceeding 120 F. Keep from freezing. NFPA Aerosol Classification: Level 1. Protect from sunlight.

**Incompatible Materials or Ignition Sources**

- Heat, sparks, open flame.

**Section 8 - Exposure Controls/Personal Protection**

**Control parameters**

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established
Pyrethrins (8003-34-7)	TWAs	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA
Propane (74-98-6)	TWAs	See Appendix F: Minimal Oxygen Content	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA

## Exposure Limits Supplemental ACGIH

- Pyrethrins (8003-34-7): **TLV Basis - Critical Effects:** (liver damage; lower respiratory tract irritation)
- Propane (74-98-6): **TLV Basis - Critical Effects:** (asphyxia (See Appendix F: Minimal Oxygen Content))
- Butane (106-97-8): **TLV Basis - Critical Effects:** (CNS impairment)

## Exposure controls

### Engineering

- Use adequate ventilation to remove vapors (fumes, dust etc)

### Measures/Controls

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- In case of insufficient ventilation, use NIOSH approved respiratory protection.

#### Eye/Face

- Wear safety goggles.

#### Hands

- Wear appropriate gloves.

#### Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

### Environmental Exposure Controls

- No data available

## Other Information

- See product label for specific use PPE instructions.

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Aerosol	Appearance/Description	Neutral; glossy aerosol spray.
Color	Neutral, glossy.	Odor	Weak/none; neutral; paint-like.
Aerosol Type	Spray	Odor Threshold	No data available
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	6.5	Specific Gravity/Relative Density	= 0.97 Water=1
Water Solubility	Insoluble	Viscosity	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available
VOC (Vol.)	No data available		
Flammability			
Flash Point	Not relevant	UEL	No data available
LEL	No data available	Heat of Combustion ( $\Delta H_c$ )	7.49 kJ/g
Flame Extension	12.3 in	Flammability (solid, gas)	Flammable aerosol.
Environmental			
Octanol/Water Partition coefficient	No data available		

## Section 10: Stability and Reactivity

### Reactivity

- No data available

**Chemical stability**

- No data available

**Possibility of hazardous reactions**

- Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

**Conditions to avoid**

- Heat, sparks, open flame. Excess heat.

**Incompatible materials**

- Heat, strong acids, strong bases and oxidizing agents.

**Hazardous decomposition products**

- Hazardous decomposition may occur when heated producing oxides of carbon and nitrogen, volatile hydrocarbon vapors.

**Section 11 - Toxicological Information**

**Information on toxicological effects**

	CAS	
Precor 2625 Premise Spray	NDA	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >2.05 mg/L 4 Hour(s); Skin-Rat LD50 • >5000 mg/kg; <b>Irritation:</b> Eye-Rabbit • Mild irritation; Skin-Rabbit • Mild irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

**Potential Health Effects**

**Inhalation**

- Acute (Immediate)** • May cause drowsiness and dizziness.
- Chronic (Delayed)** • No data available

**Skin**

- Acute (Immediate)** • May cause mild irritation.

- Chronic (Delayed)**
  - Repeated exposure to etofenprox can cause skin irritation.
- Eye**
- Acute (Immediate)**
  - May cause mild irritation.
- Chronic (Delayed)**
  - No data available
- Ingestion**
- Acute (Immediate)**
  - Aspiration Hazard - may be fatal if swallowed and enters airways.
- Chronic (Delayed)**
  - No data available
- Mutagenic Effects**
  - Piperonyl butoxide was not genotoxic in several tests, including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. Pyrethrins were not found to be genotoxic and did not damage DNA in any study conducted which included: Ames assay, chromosome aberration in Chinese hamster ovaries (CHO) cells and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. Etofenprox has been found negative for mutagenicity potential using the Ames test, chromosomal aberration and micronucleus test methods. Methoprene has been tested and found negative for mutagenicity potential.
- Carcinogenic Effects**
  - No component of this product present at 0.1% or greater is listed by IARC, OSHA or NTP.
- Reproductive Effects**
  - Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. Pyrethrins did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments. Methoprene is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

**Section 12 - Ecological Information**

**Toxicity**

		Components
Etofenprox (1%)	80844-07-1	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Sheepshead minnow</i> >0.0165 mg/L [Acute] 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.0027 mg/L [Acute] <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0008 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0000188 mg/L [Acute] NOEC Water Flea <i>Daphnia magna</i> 0.00017 mg/L [Chronic]
Tetramethrin (0.25%)	7696-12-0	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow trout</i> 0.0037 mg/L [Acute] 96 Hour(s) LC50 <i>Blue gill</i> 0.016 mg/L [Acute] <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) LC50 <i>Daphnia magna</i> 0.11 mg/L [Acute]
Piperonyl butoxide (1.5%)	51-03-6	<b>Aquatic Toxicity-Fish:</b> LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute] LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic] <b>Aquatic Toxicity-Crustacea:</b> LC50 <i>Gammarus fasciatus (amphipod)</i> 0.51 mg/L [Acute] LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute] NOEC <i>Daphnia magna</i> 0.03 mg/L [Chronic]
Pyrethrins (0.15%)	8003-34-7	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow trout</i> 0.0051 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> 0.016 mg/L [Acute] 96 Hour(s) NOEC <i>Fathead minnow</i> 0.0019 mg/L [Chronic] NOEC <i>Sheepshead minnow</i> 0.0059 mg/L [estimated chronic] <b>Aquatic Toxicity-Crustacea:</b> NOEC <i>Daphnia magna</i> 0.00086 mg/L [Chronic] NOEC <i>Mysid shrimp</i> 0.0001 mg/L [Estimated chronic]

		96 Hour(s) LC50 <i>Mysid Shrimp</i> 0.0014 mg/L [Acute] 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0116 mg/L [Acute]
(s)-Methoprene (0.09%)	40596-69-8	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.76 mg/L [Acute] 96 Hour(s) LC50 <i>Blue Gill</i> >0.37 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.048 mg/L [Chronic] <b>Aquatic Toxicity-Crustacea:</b> NOEC <i>Mysid shrimp</i> 0.014 mg/L [Chronic] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.11 mg/L [Acute] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.36 mg/L [Acute]

**Persistence and degradability**

- No data available

**Bioaccumulative potential**

- No data available

**Mobility in Soil**

- No data available

**Other adverse effects**

**Potential Environmental Effects**

- This product is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate. Nonrefillable container. Do not reuse or refill container. See product label for container disposal instructions.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	None	Consumer Commodity	ORM-D	None	Not Applicable
	UN1950	Aerosols (contains Etofenprox)	2.1	None	Not Applicable
IMO/IMDG	UN1950	Aerosols, (contains Etofenprox)	2.1	None	Marine Pollutant
IATA/ICAO	UN1950	Aerosols, flammable	2.1	None	Acute Aquatic Toxicity

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

**Other information**

- DOT • Environmental Hazards: RQ (Pyrethrins = 1 lb).
- IMO/IMDG • No data available
- IATA/CAO • No data available

Key to abbreviations  
 = N/A = Not applicable.

**Section 15 - Regulatory Information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

SARA Hazard Classifications • SARA Title III Section 313, Acute, Fire

**FIFRA – Pesticide Labeling**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION**

**Precautionary Statements •** KEEP OUT OF THE REACH OF CHILDREN.

**Hazards to Humans and Domestic Animals**

Contains Petroleum Distillate. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Repeated exposure to etofenprox can cause skin irritation.

**First Aid •**

IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. NOTE TO PHYSICIAN: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

**Environmental Hazards •**

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the area.

**Physical or Chemical Hazards**

Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Inventory		
Component	CAS	TSCA
Butane	106-97-8	Yes
Distillates		

(petroleum), hydrotreated light	64742-47-8	Yes
Etofenprox	80844-07-1	No
(s)-Methoprene	40596-69-8	No
Piperonyl butoxide	51-03-6	Yes
Propane	74-98-6	Yes
Pyrethrins	8003-34-7	No
Tetramethrin	7696-12-0	No

**United States**

**Environment**

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Propane	74-98-6	Not Listed
• Pyrethrins	8003-34-7	1 lb final RQ (listed under Pyrethrins); 0.454 kg final RQ (listed under Pyrethrins)
• Etofenprox	80844-07-1	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Piperonyl butoxide	51-03-6	Not Listed
• Tetramethrin	7696-12-0	Not Listed
• (s)-Methoprene	40596-69-8	Not Listed
• Butane	106-97-8	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Propane	74-98-6	Not Listed
• Pyrethrins	8003-34-7	Not Listed
• Etofenprox	80844-07-1	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Piperonyl butoxide	51-03-6	1.0 % de minimis concentration
• Tetramethrin	7696-12-0	1.0 % de minimis concentration
• (s)-Methoprene	40596-69-8	Not Listed
• Butane	106-97-8	Not Listed

**Section 16 - Other Information**

**Revision Summary**

Revision Date	MSDS Number	Changes
11/January/2016		• Section 3 revised to include formulation change.

**Revision Date** • 11/January/2016

**Last Revision Date** • 15/September/2015

**Preparation Date** • 28/August/2015

**Disclaimer/Statement of Liability** • The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.**

# ONEGUARD®

## Multi MoA Concentrate

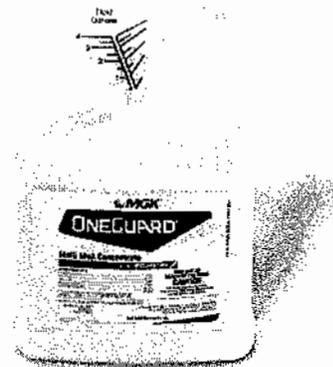
Specimen Label

- Kills Aedes, Anopheles and Culex mosquitoes
- Kills mosquitoes that may transmit West Nile virus, Chikungunya virus and Zika virus
- Controlled-release technology
- Contains NyGuard® Insect Growth Regulator
- Two modes of action
- Convenient all-in-one product

### ACTIVE INGREDIENTS:

Lambda-cyhalothrin.....	4.00%
Prallethrin.....	0.40%
Pyriproxyfen.....	1.30%
Piperonyl butoxide.....	6.00%
OTHER INGREDIENTS.....	88.30%
	100.00%

This product contains 0.336 lbs. Lambda-cyhalothrin, 0.0336 lbs. Prallethrin, 0.109 lbs. Pyriproxyfen and 0.503 lbs. PBO per gallon.



KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

See inside for first aid and precautionary statements.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read and follow ALL label directions when using this product.

#### USE RESTRICTIONS:

READ ALL DIRECTIONS COMPLETELY BEFORE USE AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS WHEN USING PRODUCT.

- In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.
- Do not spray in or near fishponds or other bodies of water.
- Do not water the treated area to the point of runoff.
- Do not make applications while it is raining.
- Do not make outdoor broadcast applications when wind speed is 15mph or greater.
- Do not apply directly to sewers or drains, or any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.
- Not for wide area mosquito abatement using aerial application or truck-mounted cold aerosol ULV sprayers and thermal fogging devices.
- Not for use on plants being grown for sale or other commercial use. Not for use in nurseries, sod farms or golf courses.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack and crevice treatments only, except for the following permitted uses:
  1. Applications to soil or vegetation around structures;
  2. Applications to lawns, turf, and other vegetation;
  3. Applications to building foundations, up to a maximum height of 3 feet above grade;
  4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
  5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed 1 inch in width;
  6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests as listed on this label.
- Do not apply in electrical conduits, junction and switch boxes, motor housings or other electrical equipment due to shock hazard from water-based spray.
- Do not mix this product with oil.
- Do not apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room. Restrict access until all surfaces are dry.
- Do not apply to classrooms when occupied.
- Do not apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.
- Keep all people and pets out of areas (indoors and outdoors) being treated and restrict access to these areas until all surfaces are dry. Cover fish aquariums and pets' food and water dishes before spraying. Do not allow spray to contact food or food-containing surfaces, feed or water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated with this product.

Use only in areas described. For best results, follow directions for specific use areas.

## PESTS CONTROLLED

Ants (excluding pharaoh, carpenter, harvester and fire), aphids, Asian lady beetles, beetles, boxelder bugs, carpet beetles, caterpillars, chinch bugs, clothes moths, crickets, daddy-longlegs, earwigs, crane flies, drain flies, fruit flies, phorid flies, firebrats, kudzu bugs, non-biting midges, mealybugs, millipedes, mites, mole crickets, mosquitoes, pillbugs, poultry lice, psocids, scales, silverfish, sowbugs, spiders (excluding black widow and brown recluse), springtails, stink bugs (including brown marmorated), stored product pests, whiteflies.

## USE AREAS

For control of listed insects, indoors and outdoors, in food and non-food areas: backyards, lawns, trees, ornamental landscaping, recreational areas, parks and athletic fields. Also for use in and around homes, schools, warehouses, office buildings, apartment buildings, theaters, hotels, resorts, industrial buildings, motels, camp sites/campgrounds, aircraft cargo areas, kennels, deer pens and enclosures, zoos, wild animal parks, food processing plants, food service establishments, restaurants, outdoor dining areas, supermarkets and grocery stores, transportation equipment, truck trailers, railroad cars and food manufacturing and warehousing establishments.

This product should not stain or cause damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. Treat a small area and allow it to dry to determine whether staining will occur.

## APPLICATION METHODS

- Broadcast spray treatment
- Foliar spray treatment
- Spot, crack and crevice treatment
- Structural perimeter treatment
- Surface spray treatment

## APPLICATION EQUIPMENT

Includes, but is not limited to:

- Backpack mist blowers
- Backpack sprayers
- Handheld sprayers
- Mist sprayers
- Power sprayers

## MIXING INSTRUCTIONS

OneGuard® Multi MoA Concentrate should be diluted with water only and applied with hand-pressurized or power-operated equipment. Clean equipment before and after use. Agitate the container of OneGuard Multi MoA Concentrate before diluting by inverting it several times. For dilution, add approximately half the required water to the tank and then add the appropriate amount of OneGuard Multi MoA Concentrate. Agitate and slowly add the remaining water. Agitate the mixture thoroughly before using and occasionally during use to ensure dispersion. Avoid excessive application.

Active Ingredient	Final % Concentration of Active Ingredient		
	1.0 fl. oz. per gallon	1.5 fl. oz. per gallon	2.0 fl. oz. per gallon
Lambda-cyhalothrin	0.031%	0.046%	0.062%
Prallethrin	0.003%	0.005%	0.006%
Pyriproxyfen	0.010%	0.015%	0.020%
Piperonyl butoxide	0.047%	0.070%	0.092%
<b>Total % Concentrate of all Active Ingredients</b>	<b>0.091%</b>	<b>0.136%</b>	<b>0.180%</b>

## Tank Mixing:

OneGuard Multi MoA Concentrate can be tank mixed with other currently registered products unless expressly prohibited by the product label. To ensure compatibility, conduct a small volume mixing test with the other products. Do not tank mix OneGuard Multi MoA Concentrate with products containing dichlorvos (DDVP).

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another.)

## Foam Applications:

OneGuard Multi MoA Concentrate may be converted to foam, which can be used to treat structural voids to control or prevent listed pests harboring in walls, under slabs, or in other void areas.

## OUTDOOR USE

Application Site	Pest	Dilution Rate In Water	Application Method(s)
Mosquito Habitats <sup>1</sup>	Mosquitoes	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Broadcast spray treatment Foliar spray treatment Spot treatment
Ornamentals and Landscapes <sup>2</sup>	Aphids, Caterpillars, Crane flies, drain flies, fruit flies, and phorid flies, mealybugs, mites, Scales, Stink bugs (including brown marmorated), Whiteflies	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Broadcast spray treatment Foliar spray treatment Spot treatment In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.
Lawns and Turf	Ants (excluding pharaoh, carpenter, harvester and fire), Beetles, Chinch bugs, Crane flies, drain flies, fruit flies, and phorid flies, Mole crickets, Springtails	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Broadcast spray treatment In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.
Exterior Walls, Foundations and Structures	Ants (excluding pharaoh, carpenter, harvester and fire), Asian lady beetles, Boxelder bugs, Crickets, Daddy-longlegs, Earwigs, Crane flies, drain flies, fruit flies, and phorid flies, Kudzu bugs, Millipedes, Pillbugs, Sowbugs, Spiders (excluding black widow and brown recluse)	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Crack and crevice treatment Spot treatment Structural perimeter treatment Surface spray treatment

<sup>1</sup>Do not spray in or near fishponds or other bodies of water.

<sup>2</sup>A small-scale test is recommended to verify safety to ornamentals.

## SPECIFIC USE DIRECTIONS

### MOSQUITOES:

Apply as a spray where mosquitoes may rest, harbor, or breed, contacting as many mosquitoes as possible. This includes, but is not limited to, tall grass, foliage, landscape plantings, building foundations, soil beneath decks, backyards and lawns. The ideal target area is the bottom 20 feet of trees. Pay particular attention to the underside of plant leaves and resting sites.

Apply using a backpack mist blower or other mechanical or pressurized equipment including, but not limited to, backpack sprayers and power sprayers. Do not make outdoor broadcast applications when wind speed is 15mph or greater.

Recommended to use 1 fl. oz. per gallon or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. for standard light infestation or low pest pressure and 2 fl. oz. per gallon or 2 fl. oz. in sufficient water to cover 1,000 sq. ft. for heavy infestation or high pest pressure.

### LISTED FLIES:

To control drain flies and phorid flies, treat protected areas outdoors. Treat garbage cans, cracks and crevices containing organic matter, recycling bins and other sources that hold or contain organic matter.

To control fruit flies, treat surfaces around garbage cans and recycling bins.

**EXAMPLES OF DILUTIONS FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS**

Application Volume: Gallons of Solution Per 1,000 sq. ft.	Application Rate: Fluid ounces of OneGuard Multi MoA Concentrate Per 1,000 sq. ft.	Fluid Ounces of OneGuard Multi MoA Concentrate to Dilute in Water According to Spray Tank Volumes		
		5 gallons	10 gallons	50 gallons
1 gal.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	5.0 fl. oz. 7.5 fl. oz. 10.0 fl. oz.	10.0 fl. oz. 15.0 fl. oz. 20 fl. oz.	50.0 fl. oz. 75.0 fl. oz. 100.0 fl. oz.
2 gal.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	2.5 fl. oz. 3.75 fl. oz. 5.0 fl. oz.	5.0 fl. oz. 7.5 fl. oz. 10.0 fl. oz.	25.0 fl. oz. 37.5 fl. oz. 50.0 fl. oz.
5 gal.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	2.0 fl. oz. 3.0 fl. oz. 4.0 fl. oz.	10.0 fl. oz. 15.0 fl. oz. 20.0 fl. oz.

**INDOOR USE**

Application Site	Pest	Dilution Rate In Water	Application Method(s)
Non-Food Handling	Ants (excluding pharaoh, carpenter, harvester and fire), Asian lady beetles, Beetles, Carpet beetles, Clothes moths, Crane flies, drain flies, fruit flies, and phorid flies, Firebrats, Silverfish, Spiders (excluding black widow and brown recluse), Stored product pests	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment  Surface spray treatment
Food-Handling <sup>1</sup>	Ants (excluding pharaoh, carpenter, harvester and fire), Crane flies, drain flies, fruit flies, and phorid flies, Stored product pests	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment  Surface spray treatment

<sup>1</sup>Do not apply when food-processing facility is in operation or foods are exposed. Do not apply this spray to surfaces or utensils that may come into contact with food.

**EXAMPLES OF DILUTIONS FOR SPRAY RIGS**

Fluid ounces of OneGuard Multi MoA Concentrate to Dilute in Water	Gallons of Water	Square Feet of Coverage
2 fl. oz.	5 gal.	2,000 sq. ft.
4 fl. oz.	10 gal.	4,000 sq. ft.
8 fl. oz.	25 gal.	8,000 sq. ft.
16 fl. oz.	50 gal.	16,000 sq. ft.
32 fl. oz.	100 gal.	32,000 sq. ft.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear protective safety glasses and the following additional PPE:

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt,
- Long pants,
- Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or Viton, and
- Shoes and socks.

In addition to the above PPE, applicators using a high pressure hand wand in an enclosed area must wear at least a NIOSH-approved respirator with:

- A particulate filter with any N, R or P filter with NIOSH approval prefix TC-84A, or a NIOSH-approved powered air purifying respirator with HE filter with NIOSH approval number TC-21C.

In addition to the above PPE, applicators using handheld foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- A NIOSH-approved respirator with an organic vapor cartridge with a combination N, R or P filter with NIOSH approval prefix TC-84A, or
- A NIOSH-approved gas mask with a canister with NIOSH approval number prefix TC-14G, or
- A powered air purifying respirator with organic vapor cartridge and combination HE filter with NIOSH approval number prefix TC-23C.

#### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not apply this product around electrical equipment due to the possibility of shock hazard.

## FIRST AID

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### PESTICIDE STORAGE:

Keep this product in a tightly closed container, when not in use. Store in a cool, dry (preferably locked) area. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, feed, seed, fertilizers, and veterinary supplies. Place formulations on lower shelves and dry formulations above.

#### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill this container.

For containers with capacities equal to or less than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available for reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**ONEGUARD®**  
Multi MoA Concentrate

EPA Reg. No. 1021-2807  
EPA Est. No. 1021-MN-2  
Rev. 0917a-1017

**MGK®**

Manufactured for MGK®  
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8810 Tenth Avenue North, Minneapolis, MN 55427

# LIQUA-TOX II

Do Not Use in Homes or Other Residential Settings. Do Not Use Outdoors.

## A Concentrate for Preparing Liquid Baits to Kill Norway Rats, Roof Rats, and House Mice

Mix contents of pouch with 1 quart of water

ACTIVE INGREDIENT:  
Sodium Salt of Diphacinone (CAS #42721-89-3): ..... 0.106%  
OTHER INGREDIENTS: ..... 99.894%  
TOTAL 100.000%

Net Contents  
13.44 fl. oz. (397 ml)  
8 - 1.68 fl. oz. (50 ml) pouches

### KEEP OUT OF REACH OF CHILDREN WARNING

EPA REG. NO. 12455-61

EPA EST. NO. 12455-WI-1

Manufactured by:  
**BEI LABORATORIES, INC.**  
599 Klineham Blvd.  
Madison, WI 53704 U.S.A.  
www.beilabs.com

FIRST AID	
Have label with you when obtaining treatment advice.	
If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center, doctor, or 1-877-857-2344 immediately for treatment advice.</li></ul>

**TREATMENT FOR PET POISONING**  
If animal eats bait, call veterinarian or 1-877-857-2344 at once.

**NOTE TO PHYSICIAN OR VETERINARIAN:**  
Anticoagulant Sodium Salt of Diphacinone. If swallowed, it may reduce the clotting ability of the blood and cause bleeding in humans or dogs that have ingested this product. Observe for poisoning symptoms (bleeding or prolonged prothrombin time). Administer Vitamin K<sub>1</sub> intramuscularly or orally.

**DIRECTIONS FOR USE:**  
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
**READ THIS LABEL:** Read this entire label and follow use directions and use precautions. Use only for sites, pests, and application methods described on the label.

**IMPORTANT:** Do not expose children, pets, or unwanted animals to rodenticides. To help prevent accidents:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and non-target wildlife, and other unwanted animals. These stations must be resistant to destruction by children under six years of age, and must be used in areas that prevent children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are tampered with, bait must be secured or otherwise immobilized. Stronger stations are needed in areas open to feral livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

**RESTRICTIONS:**  
This product is for control of Norway rats, roof rats and house mice only in industrial, commercial, agricultural, and public buildings, and other man-made structures. Do not place near or inside ventilation openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA-inspected facilities, the product must be applied in tamper-resistant bait stations. Do not use in sewers.

Do not sell this product in individual containers holding less than 13.44 fl. oz. of bait concentrate.

**SELECTION OF TREATMENT AREAS:** Determine areas where rats or mice will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in or beside basements, in corners and concealed places, between floors and walls, or in locations where rodents or their signs have been seen. Remove as much alternative food as possible.

**MIXING DIRECTIONS:** Wearing waterproof gloves, thoroughly mix contents of one 1.68 fl. oz. pouch in 1 quart (32 fluid ounces) of water.

**APPLICATION DIRECTIONS:**  
**RATS:** Provide a minimum of one prepared bait station of LIQUA-TOX II diluted product in each disposal area (e.g., bait station, chick feed, or other suitable device). If infested areas are large, or if rat population appears to be high, use dispensers at several locations. Space dispensers and refill them as needed to ensure that bait is exposed in all infested areas where it can be used without putting non-target organisms at risk.  
**MICE:** Provide a minimum of one bait station of LIQUA-TOX II diluted product in suitable disposal areas (e.g., bait stations, chick houses, or other appropriate vessels). Place dispensers in a row of 8 - 12 feet in all infested areas where bait can be used without putting non-target organisms at risk.  
**FOLLOW-UP:** Replace contaminated or spoiled bait immediately. Wearing waterproof gloves, collect and dispose of all visible dead animals and leftover bait, as well as any bait that has become accessible to non-target animals. To discourage reinfestation, limit sources of rodent food, water and harborage as much as possible. If reinfestation does occur, repeat treatment. For a long-term infestation, set up permanent bait stations and replenish bait as needed.

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**  
**WARNING:** May be fatal if absorbed through the skin. Harmful if swallowed. Avoid breathing vapors. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing. Avoid exposure to this product during pregnancy.  
Containers (including mixes and applicators) must wear coveralls over short sleeved shirt and short pants, chemical resistant footwear, socks, and waterproof gloves. Any person who removes carcasses or unused bait following application of this product must wear waterproof gloves.

**User Safety Requirements**  
Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

**Environmental Hazards**  
This product is extremely toxic to mammals and birds. Dogs and other predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Only use indoors. Do not contaminate water when disposing of equipment wash water or rinsate.

**STORAGE AND DISPOSAL**  
Do not contaminate water, food or feed by storage or disposal.  
**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.  
**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.  
**Container Handling:** Reusable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration.  
**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.



**DIRECTIONS FOR USE**  
 It is a violation of Federal law to use this product in a manner inconsistent with its labeling. See outer package label for complete DIRECTIONS FOR USE including USE RESTRICTIONS. It is illegal to sell this product unless it is accompanied by a complete set of accepted labeling.

**INDIVIDUAL SALE IS PROHIBITED BY LAW**

**TREATMENT FOR PET POISONING**

If animal eats bait, call your veterinarian or 1-877-854-2494 at once.

**NOTE TO PETS, VETERINARIAN OR VETERINARIAN**

Anticoagulant Sodium Salt of Diphacinone: If swallowed, this material may reduce the clotting ability of the blood and cause bleeding. For humans or dogs that have ingested this product and/or have obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K<sub>1</sub> intramuscularly or orally.

2442-4

**LIQUA-TOX II**

Do Not Use in Homes or Other Residential Settings, Do Not Use Outdoors.

**A Concentrate for Preparing Liquid Baits to Kill Norway Rats, Roof Rats, and House Mice**

Mix contents of pouch with 1 quart of water

ACTIVE INGREDIENT:	
Sodium Salt of Diphacinone (AS #42721-99-3):	0.106%
OTHER INGREDIENTS:	99.894%
TOTAL:	100.000%

**KEEP OUT OF REACH OF CHILDREN WARNING**

See back panels for First Aid and additional precautionary statements.

EPA REG. NO. 12455-61

EPA EST. NO. 12455-WI-1

Net Contents: 1.68 fl. oz. (50 ml) pouch

Manufactured by:



CUT HERE

SPECIMEN LABEL

<b>IF SWALLOWED</b>	<b>FIRST AID</b> Have label with you when obtaining treatment advice. • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor.
<b>IF ON SKIN</b>	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor immediately for treatment advice.
<b>IF INHALED</b>	• Move person to fresh air. • If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center, doctor, or 1-877-854-2494 immediately for treatment advice.

# ONEGUARD®

## Multi MoA Concentrate

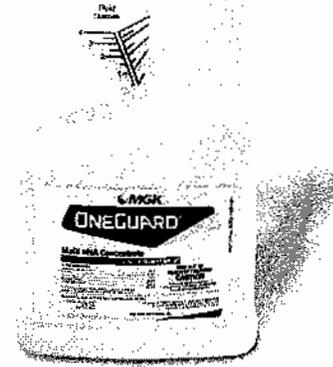
Specimen Label

- Kills Aedes, Anopheles and Culex mosquitoes
- Kills mosquitoes that may transmit West Nile virus, Chikungunya virus and Zika virus
- Controlled-release technology
- Contains NyGuard® Insect Growth Regulator
- Two modes of action
- Convenient all-in-one product

#### ACTIVE INGREDIENTS:

Lambda-cyhalothrin.....	4.00%
Prallethrin.....	0.40%
Pyriproxyfen.....	1.30%
Piperonyl butoxide.....	6.00%
OTHER INGREDIENTS.....	88.30%
	100.00%

This product contains 0.336 lbs. Lambda-cyhalothrin, 0.0336 lbs. Prallethrin, 0.109 lbs. Pyriproxyfen and 0.503 lbs. PBO per gallon.



KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

See inside for first aid and precautionary statements.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
**Read and follow ALL label directions when using this product.**

#### USE RESTRICTIONS:

READ ALL DIRECTIONS COMPLETELY BEFORE USE AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS WHEN USING PRODUCT.

- In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.
- Do not spray in or near fishponds or other bodies of water.
- Do not water the treated area to the point of runoff.
- Do not make applications while it is raining.
- Do not make outdoor broadcast applications when wind speed is 15mph or greater.
- Do not apply directly to sewers or drains, or any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.
- Not for wide area mosquito abatement using aerial application or truck-mounted cold aerosol ULV sprayers and thermal fogging devices.
- Not for use on plants being grown for sale or other commercial use. Not for use in nurseries, sod farms or golf courses.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack and crevice treatments only, except for the following permitted uses:
  1. Applications to soil or vegetation around structures;
  2. Applications to lawns, turf, and other vegetation;
  3. Applications to building foundations, up to a maximum height of 3 feet above grade;
- 4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- 5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed 1 inch in width;
- 6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests as listed on this label.
- Do not apply in electrical conduits, junction and switch boxes, motor housings or other electrical equipment due to shock hazard from water-based spray.
- Do not mix this product with oil.
- Do not apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room. Restrict access until all surfaces are dry.
- Do not apply to classrooms when occupied.
- Do not apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.
- Keep all people and pets out of areas (indoors and outdoors) being treated and restrict access to these areas until all surfaces are dry. Cover fish aquariums and pets' food and water dishes before spraying. Do not allow spray to contact food or food-containing surfaces, feed or water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated with this product.

Use only in areas described. For best results, follow directions for specific use areas.

## PESTS CONTROLLED

Ants (excluding pharaoh, carpenter, harvester and fire), aphids, Asian lady beetles, beetles, boxelder bugs, carpet beetles, caterpillars, chinch bugs, clothes moths, crickets, daddy-longlegs, earwigs, crane flies, drain flies, fruit flies, phorid flies, firebrats, kudzu bugs, non-biting midges, mealybugs, millipedes, mites, mole crickets, mosquitoes, pillbugs, poultry lice, psocids, scales, silverfish, sowbugs, spiders (excluding black widow and brown recluse), springtails, stink bugs (including brown marmorated), stored product pests, whiteflies.

## USE AREAS

For control of listed insects, indoors and outdoors, in food and non-food areas: backyards, lawns, trees, ornamental landscaping, recreational areas, parks and athletic fields. Also for use in and around homes, schools, warehouses, office buildings, apartment buildings, theaters, hotels, resorts, industrial buildings, motels, camp sites/campgrounds, aircraft cargo areas, kennels, deer pens and enclosures, zoos, wild animal parks, food processing plants, food service establishments, restaurants, outdoor dining areas, supermarkets and grocery stores, transportation equipment, truck trailers, railroad cars and food manufacturing and warehousing establishments.

This product should not stain or cause damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. Treat a small area and allow it to dry to determine whether staining will occur.

## APPLICATION METHODS

- Broadcast spray treatment
- Foliar spray treatment
- Spot, crack and crevice treatment
- Structural perimeter treatment
- Surface spray treatment

## APPLICATION EQUIPMENT

Includes, but is not limited to:

- Backpack mist blowers
- Backpack sprayers
- Handheld sprayers
- Mist sprayers
- Power sprayers

## MIXING INSTRUCTIONS

OneGuard<sup>®</sup> Multi MoA Concentrate should be diluted with water only and applied with hand-pressurized or power-operated equipment. Clean equipment before and after use. Agitate the container of OneGuard Multi MoA Concentrate before diluting by inverting it several times. For dilution, add approximately half the required water to the tank and then add the appropriate amount of OneGuard Multi MoA Concentrate. Agitate and slowly add the remaining water. Agitate the mixture thoroughly before using and occasionally during use to ensure dispersion. Avoid excessive application.

Active Ingredient	Final % Concentration of Active Ingredient		
	1.0 fl. oz. per gallon	1.5 fl. oz. per gallon	2.0 fl. oz. per gallon
Lambda-cyhalothrin	0.031%	0.046%	0.062%
Prallethrin	0.003%	0.005%	0.006%
Pyriproxyfen	0.010%	0.015%	0.020%
Piperonyl butoxide	0.047%	0.070%	0.092%
<b>Total % Concentrate of all Active Ingredients</b>	<b>0.091%</b>	<b>0.136%</b>	<b>0.180%</b>

## Tank Mixing:

OneGuard Multi MoA Concentrate can be tank mixed with other currently registered products unless expressly prohibited by the product label. To ensure compatibility, conduct a small volume mixing test with the other products. Do not tank mix OneGuard Multi MoA Concentrate with products containing dichlorvos (DDVP).

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another.)

## Foam Applications:

OneGuard Multi MoA Concentrate may be converted to foam, which can be used to treat structural voids to control or prevent listed pests harboring in walls, under slabs, or in other void areas.

## OUTDOOR USE

Application Site	Pest	Dilution Rate In Water	Application Method(s)
Mosquito Habitats <sup>1</sup>	Mosquitoes	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Broadcast spray treatment Foliar spray treatment Spot treatment
Ornamentals and Landscapes <sup>2</sup>	Aphids, Caterpillars, Crane flies, drain flies, fruit flies, and phorid flies, mealybugs, mites, Scales, Stink bugs (including brown marmorated), Whiteflies	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Broadcast spray treatment Foliar spray treatment Spot treatment In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.
Lawns and Turf	Ants (excluding pharaoh, carpenter, harvester and fire), Beetles, Chinch bugs, Crane flies, drain flies, fruit flies, and phorid flies, Mole crickets, Springtails	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Broadcast spray treatment In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.
Exterior Walls, Foundations and Structures	Ants (excluding pharaoh, carpenter, harvester and fire), Asian lady beetles, Boxelder bugs, Crickets, Daddy-longlegs, Earwigs, Crane flies, drain flies, fruit flies, and phorid flies, Kudzu bugs, Millipedes, Pillbugs, Sowbugs, Spiders (excluding black widow and brown recluse)	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Crack and crevice treatment Spot treatment Structural perimeter treatment Surface spray treatment

<sup>1</sup>Do not spray in or near fishponds or other bodies of water.

<sup>2</sup>A small-scale test is recommended to verify safety to ornamentals.

## SPECIFIC USE DIRECTIONS

### MOSQUITOES:

Apply as a spray where mosquitoes may rest, harbor, or breed, contacting as many mosquitoes as possible. This includes, but is not limited to, tall grass, foliage, landscape plantings, building foundations, soil beneath decks, backyards and lawns. The ideal target area is the bottom 20 feet of trees. Pay particular attention to the underside of plant leaves and resting sites.

Apply using a backpack mist blower or other mechanical or pressurized equipment including, but not limited to, backpack sprayers and power sprayers. Do not make outdoor broadcast applications when wind speed is 15mph or greater.

Recommended to use 1 fl. oz. per gallon or 1 fl. oz. in sufficient water to cover 1,000 sq. ft. for standard light infestation or low pest pressure and 2 fl. oz. per gallon or 2 fl. oz. in sufficient water to cover 1,000 sq. ft. for heavy infestation or high pest pressure.

### LISTED FLIES:

To control drain flies and phorid flies, treat protected areas outdoors. Treat garbage cans, cracks and crevices containing organic matter, recycling bins and other sources that hold or contain organic matter.

To control fruit flies, treat surfaces around garbage cans and recycling bins.

### EXAMPLES OF DILUTIONS FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS

Application Volume: Gallons of Solution Per 1,000 sq. ft.	Application Rate: Fluid ounces of OneGuard Multi-MoA Concentrate Per 1,000 sq. ft.	Fluid Ounces of OneGuard Multi-MoA Concentrate to Dilute in Water According to Spray Tank Volumes		
		5 gallons	10 gallons	50 gallons
1 gal.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	5.0 fl. oz. 7.5 fl. oz. 10.0 fl. oz.	10.0 fl. oz. 15.0 fl. oz. 20 fl. oz.	50.0 fl. oz. 75.0 fl. oz. 100.0 fl. oz.
2 gal.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	2.5 fl. oz. 3.75 fl. oz. 5.0 fl. oz.	5.0 fl. oz. 7.5 fl. oz. 10.0 fl. oz.	25.0 fl. oz. 37.5 fl. oz. 50.0 fl. oz.
5 gal.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	1.0 fl. oz. 1.5 fl. oz. 2.0 fl. oz.	2.0 fl. oz. 3.0 fl. oz. 4.0 fl. oz.	10.0 fl. oz. 15.0 fl. oz. 20.0 fl. oz.

### EXAMPLES OF DILUTIONS FOR SPRAY RIGS

Fluid ounces of OneGuard Multi-MoA Concentrate to Dilute in Water	Gallons of Water	Square Feet of Coverage
2 fl. oz.	5 gal.	2,000 sq. ft.
4 fl. oz.	10 gal.	4,000 sq. ft.
8 fl. oz.	25 gal.	8,000 sq. ft.
16 fl. oz.	50 gal.	16,000 sq. ft.
32 fl. oz.	100 gal.	32,000 sq. ft.

### INDOOR USE

Application Site	Pest	Dilution Rate in Water	Application Method(s)
Non-Food Handling	Ants (excluding pharaoh, carpenter, harvester and fire), Asian lady beetles, Beetles, Carpet beetles, Clothes moths, Crane flies, drain flies, fruit flies, and phorid flies, Firebrats, Silverfish, Spiders (excluding black widow and brown recluse), Stored product pests	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment  Surface spray treatment
Food-Handling <sup>1</sup>	Ants (excluding pharaoh, carpenter, harvester and fire), Crane flies, drain flies, fruit flies, and phorid flies, Stored product pests	1.0 fl. oz. to 2.0 fl. oz. per gallon or 1.0 fl. oz. to 2.0 fl. oz. in sufficient water to cover 1,000 sq. ft.	Spot, crack and crevice treatment  Surface spray treatment

<sup>1</sup>Do not apply when food-processing facility is in operation or foods are exposed. Do not apply this spray to surfaces or utensils that may come into contact with food.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear protective safety glasses and the following additional PPE:

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt.
- Long pants.
- Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or Viton, and
- Shoes and socks.

In addition to the above PPE, applicators using a high pressure hand wand in an enclosed area must wear at least a NIOSH-approved respirator with:

- A particulate filter with any N, R or P filter with NIOSH approval prefix TC-84A, or a NIOSH-approved powered air purifying respirator with HE filter with NIOSH approval number TC-21C.

In addition to the above PPE, applicators using handheld foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- A NIOSH-approved respirator with an organic vapor cartridge with a combination N, R or P filter with NIOSH approval prefix TC-84A, or
- A NIOSH-approved gas mask with a canister with NIOSH approval number prefix TC-14G, or
- A powered air purifying respirator with organic vapor cartridge and combination HE filter with NIOSH approval number prefix TC-23C.

#### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not apply this product around electrical equipment due to the possibility of shock hazard.

## FIRST AID

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### PESTICIDE STORAGE:

Keep this product in a tightly closed container, when not in use. Store in a cool, dry (preferably locked) area. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, feed, seed, fertilizers, and veterinary supplies. Place formulations on lower shelves and dry formulations above.

#### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill this container.

For containers with capacities equal to or less than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available for reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**ONEGUARD®**  
Multi MoA Concentrate

EPA Reg. No. 1021-2807  
EPA Est. No. 1021-MN-2  
Rev. 0917a-1017

**MGK®**

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8810 Tenth Avenue North, Minneapolis, MN 55427



Insect Control Solutions

Issue Date: 17-Oct-2017

Revision Date: 17-Oct-2017

Version: 4

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** OneGuard® Multi MoA Concentrate

**EPA Registration Number:** 1021-2807

### Other means of identification

**Part Code:** 3126

### Recommended use of the chemical and restrictions on use:

**Recommended Use:** Insecticide.

### Details of the supplier of the safety data sheet

**Manufacturer Address:** McLaughlin Gormley King Company  
8810 10th Avenue North  
Minneapolis, MN 55427  
**Telephone Number:** (800) 645-6466, or (763) 544-0341  
**e-Mail Address:** mgk-sds@mgk.com  
**FAX #:** (763) 544-6437

### Emergency telephone numbers:

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300  
**International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

**Comments:** MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT. For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to (888) 740-8712, or (952) 852-9509.

## 2. HAZARDS IDENTIFICATION

**Environment:** OSHA has not adopted the environmental - portion of the GHS regulations, however, this SDS may include information on environmental effects.

### Classification:

#### **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2B

### Label elements

#### **Emergency Overview**

**WARNING**

**Hazard statements**

- H320 - Causes eye irritation
- H332 - Harmful if inhaled
- H302 - Harmful if swallowed
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects



Appearance: Opaque , White

Physical state: Liquid

Odor Sweet - Solvent

**Precautionary Statements - Prevention:**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response:**

- P321 - Specific treatment (see Section 4/ First Aid).
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330 - Rinse mouth

**Precautionary Statements - Storage:**

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal:**

- P501 - Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Prallethrin (ETOC®)	23031-36-9	0.40
NYLAR® (Pyriproxyfen)	95737-68-1	1.30
Lambda-Cyhalothrin	91465-08-6	4.00
Piperonyl Butoxide (PBO)	51-03-6	6.00
Petroleum distillates, hydrotreated light	64742-47-8	< 10 *

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

#### 4. FIRST AID MEASURES

**Aspiration pneumonia hazard:** • No information available

**Description of first aid measures:**

<b>Eye contact:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin Contact:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Ingestion:</b>	If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Self-protection of the First Responder:</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
<b>Note to physicians:</b>	For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:**

Caution: Use of water spray when fighting fire may be inefficient.

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

**Protective equipment and precautions for firefighters:**

Wear self-contained breathing apparatus and protective suit.

<b>NFPA</b>	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties
<b>HMS</b>	Health hazards 1	Flammability 1	Physical hazards 0	- Personal protection X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Personal precautions:** Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
- Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

- Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
- Methods for cleaning up:** Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Advice on safe handling:** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. P270 - Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines:**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	TWA: 100 ppm TWA: 525 mg/m³

**Appropriate engineering controls**

- Engineering Controls:** Safety showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

- Eyeface protection:** Wear safety glasses with side shields (or goggles).
- Skin and body protection:** Protective gloves are recommended, but are not required.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

**Physical state:** Liquid  
**Appearance:** Opaque , White  
**Odor** Sweet - Solvent  
**Odor threshold:** No information available  
**Color (Gardner Scale):** No information available

<u>Property:</u>	<u>Values:</u>	<u>Comment: • Method</u>
pH:	7.24	.
Melting point / freezing point:	No information available	
Boiling point / boiling range:	No information available	
Flash point:	> 93.3 °C / > 200.0 °F	Tag Closed Cup;

**Evaporation rate:** No information available  
**Flammability (solid, gas):** No information available  
**Upper flammability limit (UEL):** No information available  
**Lower flammability limit (LEL):** No information available  
**Vapor pressure:** No information available  
**Vapor density:** No information available  
**Specific Gravity:** No information available  
**Water solubility:** No information available  
**Partition coefficient; n-Octanol/ Water:** No information available  
**Autoignition temperature:** No information available  
**Decomposition temperature:** No information available  
**Kinematic viscosity:** No information available  
**Dynamic viscosity:** 163 @ 20°C, 155 @ 40°C, cPs  
**Refractive Index:** No information available

**Other Information:**  
**Density:** 1.0051 g/cm<sup>3</sup> @ 21.2 °C  
**VOC Content (%):** 1.2

**Miscibility/ Solubility:**  
**Water:** Partially miscible  
**Alcohol** Partially miscible  
**Aromatic solvents:** Partially miscible  
**Petroleum distillates:** Partially miscible

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials:**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

**Numerical measures of toxicity - Product Information**

Oral LD <sub>50</sub>	550 mg/kg (rat)
Dermal LD <sub>50</sub>	>5,000 mg/kg (rabbit)
Inhalation LC <sub>50</sub>	>2.11 mg/L, (rat; 4 hours)
Eye contact:	Moderately irritating to the eyes. Irritation cleared within 7 days. (rabbit).
Skin Contact:	Slightly irritating. (rabbit).
Skin Irritation Index:	0.5
<b>Sensitization:</b>	Negative. (guinea pig).
<b>Comment:</b>	Toxicology data was bridged from a similar formula.
<b>Piperonyl Butoxide:</b>	Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.
<b>Carcinogenicity/ Oncogenicity:</b>	
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity:</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
Teratogenicity:	No information available.
<b>STOT - single exposure:</b>	No information available.
<b>STOT - repeated exposure:</b>	No information available.
Chronic toxicity:	Prolonged or repeated exposure increases the risk. Possible risk of irreversible effects. Avoid repeated exposure.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:****Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	Partition coefficient; n-Octanol/ Water:
Prallethrin (ETOC®) 23031-36-9	4.49

**Other adverse effects:** No information available**Environmental hazards (EPA):**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

**Contaminated packaging:** For more information, see product label.

<b>14. TRANSPORT INFORMATION</b>
----------------------------------

**DOT (Department of Transportation)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Other Shipping Information:** This material is **not** regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (*i.e.*, less-than 119 Gallons / 450 Liters).

When shipping in Bulk-quantities (*i.e.*, more than 119 Gallons / 450 Liters), please contact MGK® for the proper shipping description.

**Air (IATA/ ICAO)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Vessel (IMO/ IMDG)** Not available

<b>15. REGULATORY INFORMATION</b>
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**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains

a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

#### SARA 311/312 Hazard

##### Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations:

##### California Proposition 65:

This product does not contain any Proposition 65 chemicals

#### U.S. EPA Label Information:

EPA Registration Number: 1021-2807

##### Difference between SDS and EPA (FIFRA) Pesticide label:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: CAUTION

##### Precautionary Statements:

- Harmful if swallowed.
- Causes moderate eye irritation.

##### International:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.****Issue Date:**  
17-Oct-2017**Revision Date:**  
17-Oct-2017**Revision Note:**  
- SDS sections updated  
- Product name change.  
- 1  
- 8  
- 15**SDS Prepared By:**  
e-Mail Address:Troy Azzivitto, MGK® Chemistry Department.  
mgk-sds@mgk.com**Disclaimer:**

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