

SAFETY DATA SHEET: Bendi 800

1. IDENTIFICATION

Product Name: Bendi 800
Use: Insecticide
Supplier: Key Industries Ltd
Address: P.O. Box 65070, Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: CHEMCALL 0800 243 622, 24 hours
National Poisons Centre: 0800 POISON (0800 764 766)

2. HAZARD IDENTIFICATION

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Hazard Classification) Notice 2020.

HSNO Approval: HSR000451

Hazard Classifications: Acute oral toxicity Category 2, Acute dermal toxicity Category 4,
Acute inhalation toxicity Category 3, Specific target organ toxicity (repeated exposure)
Category 1, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates,
Hazardous to the aquatic environment acute Category 1

Pictograms:



Signal word: DANGER

Hazard Statements:

Fatal if swallowed.
Harmful in contact with skin.
Toxic if inhaled.
Causes damage to organs (nervous system) through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to terrestrial vertebrates
Very toxic to terrestrial invertebrates.

Prevention Statements:

Keep out of reach of children
Read label before use.
Do not breathe dust/mist/spray.
Wash hands and exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in well-ventilated area.
Avoid release to the environment.
Wear protective gloves and eye protection.

Response Statements:

Get medical attention if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTRE or doctor for advice.
Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
Call a POISON CENTRE or doctor if you feel unwell.
Wash contaminated clothing before re-use.

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IF INHALED: Remove to fresh air and keep at rest in a position comfortable to breathing.

Call a POISON CENTRE or doctor.

P391 Collect spillage.

Storage Statements:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal Statements:

Dispose of product and containers in accordance with local regulations.

NZS5433 Transportation of Dangerous Goods on Land

Classified as DG Class 6.1 for transport.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/w)
Bendiocarb	22781-23-3	80
Filler/dispersant	Trade secret	16
Wetting agent	Trade secret	4

4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Have product label or Safety Data Sheet at hand.

INGESTION: Immediately call POISON CENTRE or doctor for advice. Rinse mouth. Do not induce vomiting unless advised to do so. If at hand, advice may be to give one atropine tablet (0.6 mg) every 5 minutes until dryness of mouth occurs.

SKIN CONTACT: Wash with soap and water. If irritation develops or person feels unwell, obtain medical advice.

EYE CONTACT: Flush with running water for at least 15 minutes. Remove contact lenses if present, and easy to do after 5 minutes before continuing rinsing. If irritation develops, obtain medical assistance.

INHALATION: Remove patient to fresh air and keep at rest until recovered. Call a POISON CENTRE or doctor for medical advice.

First Aid facilities:

Provide eye baths and safety showers close to work areas.

Advice to Doctor:

Bendiocarb is a carbamate insecticide, which is a reversible cholinesterase inhibitor. Atropine, preferably by injection, is an antidote. Additionally, a benzodiazepine (e.g. diazepam) should be given in case of seizures/convulsions.

5. FIRE-FIGHTING MEASURES

Flashpoint: Non-flammable.

Suitable extinguishing media: Water fog, fine water spray, carbon dioxide, dry chemical, foam.

Hazards from combustion products: At temperatures above 125 °C will evolve toxic fumes of methyl isocyanate. At temperatures above 125 °C will evolve toxic fumes of methyl isocyanate.

Precautions for fire fighters and special protective equipment: Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray.

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Wear appropriate personal protection equipment to prevent exposure by inhalation, and to skin and eyes. Avoid dust generation. Ensure adequate ventilation. Wear approved respirator where mist or dust of unknown concentration may be generated. Self-contained breathing apparatus is recommended. Contain spillage and prevent from entering drains, sewer or any water course.

Methods and materials for containment

Dyke and contain solid or liquid with sand, earth, sawdust or vermiculite and transfer liquid and solids separately to labelled

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containers for recovery or disposal. Clean up and report spills immediately. Keep spills out of sewers and open bodies of water. In event of spillage contaminating a water-course, notify the Police, local Health Protection Officer and Council. Clean contaminated surfaces with water.

7. HANDLING AND STORAGE

Precautions for safe handling: Certified Handler required. Read product label and this Safety Data Sheet before use. Keep out of reach of children. Avoid breathing dust or mist/aerosol. Avoid contact with skin or eyes. Observe good personal hygiene practices and recommended procedures including wearing of personal protection equipment. Wash hands and exposed skin thoroughly with soap and water after handling.

Conditions for safe storage: Keep out of reach of children. Store locked up. Do not store for prolonged periods in direct sunlight. Avoid temperatures below 0°C and above 30°C. Avoid contamination of and with other products.

Incompatible materials: Not specified.

Other: Changing out of work clothing and showering recommended at the end of each work shift. Wash work clothes separately from other household clothing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Health Exposure Standards: Workplace Exposure Standards (WES), have not been set by Worksafe 913 ed., April 2022) for compounds in this substance:

Particulates (not otherwise classified)	WES-TWA	10 mg/m ³
Respirable dust	WES-TWA	3 mg/m ³

Biological limit values: None established

Engineering Controls:

Ventilation: Use outdoors or in a well-ventilated area.

Personal Protective Equipment:

Respiratory Protection: Respiratory protection may be necessary under certain use conditions. Under such conditions, an approved respirator or disposable face mask according to local standards, must be worn.

Eye Protection: Wear safety goggles or face shield.

Skin/ Body Protection: Wear chemical resistant elbow length gloves (rubber, neoprene, nitrile or equivalent), waterproof boots, protective clothing, e.g. overalls with long sleeves buttoned at neck and wrist, long pants).

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white powder
Odour	Almost no odour
Odour threshold	Not determined
pH	~7 (as 1% dilution in water)
Melting/Freezing point °C	Not determined
Boiling Point/Range °C	Not applicable
Flash Point °C	Not flammable.
Flammability (solid, gas)	Not applicable
Upper/lower flammability/explosive limits	30 g/m ³
Vapour Pressure mm Hg @ 20°C	Not determined
Vapour Density kPa @ 20°C	Not determined
Relative density	Not determined
Solubilities	Suspension in water
Partition coefficient: n-octanol/water	1.7 @ 25 °C (bendicarb)
Autoignition Temperature °C	Not determined
Decomposition Temperature °C	Not determined

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Kinematic viscosity Not determined
Particle characteristics Not determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions. Fine dust may form explosive mixture in air.
Conditions to avoid: Heating, contact with oxidizing agents and sources of ignition.
Hazardous decomposition products: At temperatures above 125 °C will evolve toxic fumes of methyl isocyanate.
Hazardous reactions: None specified.

11. TOXICOLOGICAL INFORMATION

Toxicity classifications determined by assessment of the components in the formulated mixture.

Acute toxicity: Classified as highly toxic if swallowed, toxic if inhaled and harmful by contact with skin.

Aspiration hazard: Not classified as an aspiration hazard.

Respiratory irritation: Not classified as respiratory irritant.

Skin corrosion/irritation: May be irritating to skin.

Serious eye damage/irritation: Mildly irritating. Symptoms may be tearing and blurred vision.

Respiratory or skin sensitization: Not classified as a sensitizer.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific organ toxicity: Causes damage to blood and haematopoietic system by repeated or prolonged exposure. May have cumulative poisoning effects. Cholinesterase inhibition.

Narcotic effects: Not classified.

Toxicological Information:

Bendiocarb Oral, guinea pig, LD₅₀ 25 mg/kg
Inhalation, rat, LC₅₀ 0.55 mg/L
Dermal, rat, LD₅₀ 566 – 800 g/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: This mixture is classified as toxic to aquatic life with long lasting effects. Do not contaminate waterways, sewers, or drains when disposing of product or wash water from equipment.

Persistence and degradability: No specific information available for mixture. Bendiocarb is not expected to rapidly degrade.

Potential to be bioaccumulative: No specific information available for mixture.

Mobility in soil: Not soluble in water.

Other adverse effects: No information available

Ecotoxicological Information:

Bendiocarb Sheepshead minnow, LC₅₀ (96 hr) 0.86 mg/L
Daphnia sp., EC₅₀ (48 hr) 0.16 mg/L
Bobwhite quail, LC₅₀ 19 mg/kg
Honey bee, LD₅₀ 0.1µg/bee

Environmental Exposure Limits (EEL's): Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure container is empty before disposal to landfill. For HDPE containers, triple rinse or preferably pressure rinse with water. Use rinsings in preparing the diluted solution.

Waste should be disposed of to an approved waste disposal facility or by burying at an approved site. Do not burn product or containers.

Ensure disposal of containers and product is in compliance with requirements of national and local authorities.

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14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	2757	UN No.	2757	UN No.	2757
Proper Shipping Name	CARBAMATE PESTICIDE. SOLID, TOXIC (BENDIOCARB MIXTURE)	Proper Shipping Name	CARBAMATE PESTICIDE. SOLID, TOXIC (BENDIOCARB MIXTURE)	Proper Shipping Name	CARBAMATE PESTICIDE. SOLID, TOXIC (BENDIOCARB MIXTURE)
DG Class	6.1	DG Class	6.1	DG Class	6.1
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group	II	Pack Group	II	Pack Group	II
Hazchem	2X	Hazchem	2X		

Marine Pollutant: Yes

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 6.1 for Transport.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2020 Transport of Dangerous Goods on Land for information.

15. REGULATORY INFORMATION

HSNO Act 1996

Country: New Zealand

Inventory: NZ Inventory of Chemicals

Status: Components listed

EPA New Zealand Approval Code: HSR000451, Wettable powder containing 800 g/kg bendicarb.

HSNO Classifications: Acute oral toxicity Category 2, Acute dermal toxicity Category 4, Acute inhalation toxicity Category 3, Specific target organ toxicity (repeated exposure) Category 1, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates, Hazardous to the aquatic environment acute Category 1

HSNO Controls: Refer to www.epa.govt.nz and www.worksafe.govt.nz for information on Default and Additional Controls, HS Notices and HSW (Hazardous Substances) regulations.

Emergency plan	>100 kg or 100 L
Secondary containment	>100 kg or 100 L
Signage	>100 kg or 100 L
Location test certificate	>250 kg or 250 L
Amount that must be secured when unattended	Any amount
Fire extinguishers	Not required
Tracking	Required
Certified handler	Required

ACVM Act 1997

Registration Number: Not required (exempt product).

16. OTHER INFORMATION

Date of Issue: 9th August 2022.

Reasons for Issue: Review SDS, update Emergency number and add GHS categories.

Replaces: 17th March 2021

Abbreviations:

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EPA	New Zealand Environmental Protection Authority
GHS	Global Harmonised System
HSIS	Hazardous Substance Information System
HSNO	Hazardous Substances and New Organisms
NZIoC	New Zealand Inventory of Chemicals
STEL	Short Term Exposure Limit (15 minute exposure period)
TWA	Time-Weighted Average (8 hours exposure period)
WES	Workplace Exposure Standard

References:

EPA www.epa.govt.nz
Worksafe NZ www.worksafe.govt.nz
Supplier Safety Data Sheets

Other:

The information contained herein is given in good faith but no warranty, expressed or implied is made.

End of safety data sheet

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited.