

Safety Data Sheet



Nature Shield (all varieties)

Section 1

Product Description

Product Name: Nature Shield (all varieties)
Recommended Use: Water Repellent Concrete Sealer
Supplier: DURACO, 4645 North Ave. Oceanside, CA 92056
Emergency Phone: CHEMTREC: 800-424-9300

Section 2

Hazard identification

Nature Shield VOC 600:

Category 2 Flammable Liquid

Category 4 Acute Inhalation Toxicity

Category 5 Acute Dermal Toxicity

Category 2A Eye Irritation

Category 2 Carcinogen

Category 3 Specific Target Organ Acute Toxicity (respiratory system, central nervous system)

Category 2 Specific Target Organ Chronic Toxicity (liver, kidney, central nervous system)

Category 1B Germ Cell Mutagenicity

Category 2 Skin Irritant

Category 2 Acute Aquatic Toxicity



Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapor
H313 May be harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H340 May cause genetic defects
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H401 Toxic to aquatic life

Precautionary statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking
P233 Keep container tightly closed
P260 Do not breathe mist/vapors/spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P281 Use personal protective equipment as required

Response:

P301+P312+P331 IF SWALLOWED: Do NOT induce vomiting. Immediately call a poison center or doctor/physician if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse

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skin with water/shower

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

P305+p351+p338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs, get medical advice/attention

P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction

Storage:

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with local/federal regulations.

Nature Shield VOC 400:

Category 2 Flammable Liquid

Category 5 Acute Inhalation Toxicity

Category 5 Acute Dermal Toxicity

Category 2A Eye Irritation

Category 2 Carcinogen

Category 3 Specific Target Organ Acute Toxicity (respiratory system, central nervous system)

Category 2 Specific Target Organ Chronic Toxicity (liver, kidney, central nervous system)

Category 1B Germ Cell Mutagenicity

Category 2 Skin Irritant

Category 1 Skin Sensitization

Category 3 Acute Aquatic Toxicity



Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapor

H313 May be harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H333 May be harmful if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H340 May cause genetic defects

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H402 Harmful to aquatic life

Precautionary statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking

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P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

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P305+p351+p338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs, get medical advice/attention

P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction

Storage:

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with local/federal regulations.

Nature Shield VOC 120:

Category 2 Flammable Liquid

Category 2A Eye Irritation

Category 3 Specific Target Organ Acute Toxicity (respiratory system)

Category 2 Skin Irritant

Category 1 Skin Sensitization

Category 3 Acute Aquatic Toxicity



Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapor

H315 Causes skin irritation

H317 May cause allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H402 Harmful to aquatic life

Precautionary statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking

P233 Keep container tightly closed

P260 Do not breathe mist/vapors/spray

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

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Response:

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present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs, get medical advice/attention

P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction

Storage:

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with local/federal regulations.

Section 3 Composition/ Information on Ingredients

Nature Shield VOC 600:

	<u>CAS #</u>	<u>OSHA PEL(TWA)</u>	<u>ACGIH(TLV-TWA)</u>	<u>Conc.(wt. %)</u>
Acrylic polymer	Proprietary	None established	None established	10.0 – 20.0
Dimethylketone	67-64-1	1000 ppm	500 ppm	20.0 – 30.0
t-Butyl Acetate	540-88-5	200 ppm	200 ppm	20.0 – 30.0
Light Solvent Naptha	64742-95-6	None established	None established	15.0 – 30.0
Trimethylbenzene	25551-13-7	25 ppm	25 ppm	14.0 – 17.0
1,2,4-Trimethylbenzene	95-63-6	25 ppm(1989 std.)	25 ppm	5.0 – 12.0
Cumene	98-82-8	50 ppm	50 ppm	1.0 – 2.8
Mixed Xylene Isomers	1330-20-7	100 ppm	100 ppm	0.0 – 1.4
Alkylsilane	Proprietary	None established	None established	1.0 – 10.0
Alkylsiloxane	Proprietary	None established	None established	1.0 – 10.0

Nature Shield VOC 400:

	<u>CAS #</u>	<u>OSHA PEL(TWA)</u>	<u>ACGIH(TLV-TWA)</u>	<u>Conc.(wt. %)</u>
Acrylic polymer	Proprietary	None established	None established	10.0 – 20.0
Dimethylketone	67-64-1	1000 ppm	500 ppm	20.0 – 30.0
t-Butyl Acetate	540-88-5	200 ppm	200 ppm	20.0 – 30.0
p-Chlorobenzotriflouride	98-56-6	None established	None established	20.0 – 30.0
Light Solvent Naptha	64742-95-6	None established	None established	3.0 – 7.0
Trimethylbenzene	25551-13-7	25 ppm	25 ppm	3.0 – 4.5
1,2,4-Trimethylbenzene	95-63-6	25 ppm(1989 std.)	25 ppm	2.0 – 3.0
Cumene	98-82-8	50 ppm	50 ppm	0.1 – 0.7
Mixed Xylene Isomers	1330-20-7	100 ppm	100 ppm	0.0 – 0.4
Alkylsilane	Proprietary	None established	None established	1.0 – 10.0
Alkylsiloxane	Proprietary	None established	None established	1.0 – 10.0

Nature Shield VOC 120:

	<u>CAS #</u>	<u>OSHA PEL(TWA)</u>	<u>ACGIH(TLV-TWA)</u>	<u>Conc.(wt. %)</u>
Acrylic polymer	Proprietary	None established	None established	10.0 – 20.0
Dimethylketone	67-64-1	1000 ppm	500 ppm	30.0 – 40.0
p-Chlorobenzotriflouride	98-56-6	None established	None established	30.0 – 50.0
Alkylsilane	Proprietary	None established	None established	1.0 – 10.0
Alkylsiloxane	Proprietary	None established	None established	1.0 – 10.0

Section 4 First Aid Measures

Emergency First Aid Procedures

Skin: Clean material from skin with acetone, then wash with soap and water followed by moisturizer. If irritation persists, contact a physician.

Eyes: Flush with a gentle but large stream of clean water for 15 minutes, lifting the lower and upper eyelids occasionally. Remove contact lenses if able. Call a physician if irritation persists.

Inhalation: Move to fresh air and provide oxygen if breathing is difficult. Seek medical attention.

Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water. Do not give milk or alcoholic beverages. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

Section 5 Firefighting Procedures

Suitable Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam

Unsuitable Extinguishing Media: High-volume water jet

Flash Point (TCC): 0° F

Flammable Limits (% volume in air for solvents): LEL=0.9 UEL=12.8

Special Fire Fighting Procedures: Evacuate area and fight fire from a distance. Firefighters wear NIOSH approved self-contained breathing apparatus. Cool containers exposed to fire with water. Vapors are heavier than air and may travel along the ground to distant ignition sources. Do not allow runoff from firefighting to enter drains or water courses.

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Section 6 Spill or Leak Procedures

Steps to Take if Material is Released or Spilled: No health effects expected from the clean-up of the material if contact can be avoided. Follow the protection information found in Section 8 of this SDS. Ventilate the contaminated area. Prevent the spread of spilled material by using a suitable absorbent material or sand dam.

Section 7 Handling and Storage

Normal Handling: Always use good industrial hygiene practices and safety guidelines.

Storage: Store material in its original container. Keep containers tightly closed when not in use. Keep material away from open flame, sparks, or other sources of heat and ignition.

Waste Disposal Method: Liquid material is an ignitable waste (D001). Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Use proper bonding/grounding techniques to avoid static buildup/discharge, which can ignite vapors. Empty containers may contain explosive levels of vapor. Do not cut, drill, or weld on or near the containers.

Section 8 Protection Information

Respiratory Protection: Use NIOSH-approved organic vapor respirator when exposure levels can't be kept below limits.

Ventilation: Provide adequate mechanical ventilation to keep exposure levels below TLV's.

Protective Gloves: Wear impervious chemical gloves.

Eye Protection: Wear chemical safety glasses.

Other Protective Clothing or Equipment: As needed to prevent repeated/prolonged contact.

Work/Hygienic Practices: Use only in adequately-ventilated area unless recommended respiratory protection is used. Wash thoroughly with soap and water after handling and before eating, smoking, or using washroom. If clothes become contaminated, change to clean clothing and wash contaminated clothes before re-use.

Section 9 Physical Data

Appearance: Clear to slightly hazy liquid

Odor: Ketone

Odor Threshold: 306 ppm

pH: None

Freezing/Melting Point: <-70° F

Boiling Point: >133° F

Flash Point: 0° F

Evaporation Rate: No data available

Flammability (solid, gas): No data available

Lower/Upper Flammability: 0.9 – 12.8

Vapor Pressure: 31 mm Hg at 20° C

Vapor Density: No data available

Density: 0.87 g/cc (VOC 600); 0.94 (VOC 400); 1.01 (VOC 120)

Solubility (w/w in water): 26% (VOC 600 & VOC 400); 39% (VOC 120)

Partition Coefficient: No data available

Auto-ignition Temperature: No data available

Decomposition temperature: No data available

Viscosity: 12 – 18 centipoise

Section 10 Reactivity Data

Reactivity: Stable

Conditions to avoid: Prevent vapor accumulation. Avoid heat and flames.

Incompatibility (Materials to Avoid): Strong oxidizers, acids, alkalis, nitrates.

Hazardous Decomposition (Byproducts): Carbon monoxide, carbon dioxide, isobutylene, and acetic acid.

Hazardous Polymerization: Should not occur.

Section 11 Toxicity Data

Routes of Exposure: Inhalation, Ingestion, eyes, and Skin.

Acute Toxicity Lethal Doses (ATE):

Nature Shield VOC 600:

LC50 (inhl) 12.01 mg/l

LD50 (oral) 6061 mg/kg

LD50 (skin) 4950 mg/kg

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LC50 (inhl) 27.0 mg/l
LD50 (oral) 6452 mg/kg
LD50 (skin) 4149 mg/kg

Nature Shield VOC 120:
LC50 (inhl) 10000 mg/l
LD50 (oral) 7752 mg/kg
LD50 (skin) 5650 mg/kg

Health Hazards:

Acute: May cause eye, skin, gastrointestinal, and lung irritation. May cause central nervous system depression.

Chronic: Prolonged and repeated exposures to high concentrations may cause liver and kidney damage.

Skin Contact: May cause irritation and redness. Prolonged or repeated exposure can cause defatting and drying of the skin which may result in a burning sensation and a dried, cracked appearance.

Eye Contact: Causes redness, tearing, irritation of the eyes. Direct contact may will cause moderate eye irritation.

Inhalation: May cause headache, nausea, dizziness, and loss of coordination. Continued inhalation may result in unconsciousness.

Ingestion: May be harmful if swallowed. Aspiration of the material into the lungs can cause chemical pneumonitis, which can be fatal.

Carcinogen: No components of this product are known carcinogens.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin, eye, or lung disorders may be more susceptible to the effects of the substance.

Section 12 Ecological Data

Acute Toxicity to Fish (calculated): LL50 (96 hr) 30.4 mg/L (VOC 600);30.4 mg/L (VOC 400) ;22.0 mg/L (VOC 120)

Acute Toxicity to Aquatic Invertebrates (calculated): EL50 (48 hr) 12.6 mg/L (VOC 600) ;24.2 mg/L (VOC 400) ;24.0 mg/L (VOC 120)

Toxicity to Aquatic Plants (calculated): EL50 algae 6.0 mg/L (VOC 600);12.0 mg/L (VOC 400);850.0 mg/L (VOC 120)

Toxicity to Microorganisms: High concentrations may be harmful to sewage treatment plant microbes.

Chronic Toxicity to Fish: No data available

Chronic Toxicity to Aquatic Invertebrates: No data available

Persistence and Degradability: Expected to degrade readily and rapidly in the presence of oxygen

Bioaccumulation Potential: This material is not expected to bioaccumulate.

Mobility in the Soil: Expected to move slowly in soil and water.

Other Adverse Effects: No data available.

Section 13 Disposal Information

Waste Disposal Method: Liquid material is an ignitable waste (D001). Dispose of material in accordance with all Federal, State, and Local regulations.

Section 14 Transport Information

For all modes:

Proper Shipping Name: PAINT

Hazard Class: 3

UN: UN1263

Packing Group: PGII

Marine Pollutant: No

Section 15 Regulatory Information

SARA 311/312: Yes. (VOC 600/VOC 400 = Fire, Acute, Chronic; VOC 120 = Fire, Acute).

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR

1910.1200). **TSCA:** Components of this material are either listed or are exempt from the EPA TSCA Inventory of Chemical Substances.

California Proposition 65:

Nature Shield VOC 600 & VOC 400:

WARNING! This product contains a chemical known to the State of California to cause cancer.

98-82-8 Cumene

71-43-2 Benzene

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm:

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71-43-2 Benzene



Nature Shield VOC 120:

This product contains no chemicals listed.

Massachusetts Right To Know:

Nature Shield VOC 600:

25551-13-7	Benzene, trimethyl	14.0 – 17.0
95-63-6	1,2,4-Trimethylbenzene	5.0 – 12.0
1330-20-7	Mixed xylenes	0.0 – 1.4

Nature Shield VOC 400:

25551-13-7	Benzene, trimethyl	3.0 – 4.5
95-63-6	1,2,4-Trimethylbenzene	2.0 – 3.0
1330-20-7	Mixed xylenes	0.0 – 1.4

Nature Shield VOC 120:

This product contains no chemicals listed.

Pennsylvania Right To Know:

Nature Shield VOC 600:

64742-95-6	Light Solvent Naphtha	15.0 – 30.0
25551-13-7	Benzene, trimethyl	14.0 – 17.0
95-63-6	1,2,4-Trimethylbenzene	5.0 – 12.0
1330-20-7	Mixed xylenes	0.0 – 1.4

Nature Shield VOC 400:

64742-95-6	Light Solvent Naphtha	3.0 – 7.0
25551-13-7	Benzene, trimethyl	3.0 – 4.5
95-63-6	1,2,4-Trimethylbenzene	2.0 – 3.0
1330-20-7	Mixed xylenes	0.0 – 0.4

Nature Shield VOC 120:

This product contains no chemicals listed.

New Jersey Right To Know:

Nature Shield VOC 600:

64742-95-6	Light Solvent Naphtha	15.0 – 30.0
25551-13-7	Benzene, trimethyl	14.0 – 17.0
95-63-6	1,2,4-Trimethylbenzene	5.0 – 12.0
1330-20-7	Mixed xylenes	0.0 – 1.4

Nature Shield VOC 400:

64742-95-6	Light Solvent Naphtha	3.0 – 7.0
25551-13-7	Benzene, trimethyl	3.0 – 4.5
95-63-6	1,2,4-Trimethylbenzene	2.0 – 3.0
1330-20-7	Mixed xylenes	0.0 – 0.4

Nature Shield VOC 120:

This product contains no chemicals listed.

Section 16 Additional Information

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.