

SAFETY DATA SHEET

MOLD CARE®

Health Emergencies: INFOTRAC® (800) 535-5053

1. PRODUCT AND COMPANY INFORMATION

Product Identity: Mold Care

Product Identity: MOLD CARE
Manufacturer: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
Telephone: Phone: (800) 264-0870
Fax: (865) 577-5825
Emergency Phone: 800-535-5053 (INFOTRAC)

SDS Date of Preparation: 08/17/21

Recommended use of the chemical and restrictions on use

Recommended use : Cleaning/washing agents and disinfectants

2. HAZARDS IDENTIFICATION

GHS Classification:

Health	Physical
Acute Toxicity Oral Category 3 Acute Toxicity Dermal Category 4 Skin Corrosion Category 1B Serious Eye Damage Category 1 Short-term (acute) aquatic hazard Category 1 Long-term (acute) aquatic hazard Category 2	Flammable Liquids Category 3

GHS Label Elements:

TE



Signal Word: DANGER!

Statements of Hazard

H226 Flammable liquid and vapor.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P210 Keep away from hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take action to prevent static discharge.
P264 Wash skin thoroughly after handling.
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:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER /doctor.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Other hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture

Chemical nature: Mixture

Hazardous Components	CAS No.	Concentration (% w/w)
Didecyltrimethylammonium chloride	7173-51-5	>=70 - <90
Ethanol	67-63-0	>=10 - <15

4. FIRST AID MEASURES

If Inhaled: If unconscious, place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Keep respiratory tract clear.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed: No information available.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical

Unsuitable extinguishing media: High volume water jet.

Specific hazards during firefighting: Heating or fire can release toxic gas. Do not allow run-off from firefighting to enter drains or water courses.

Further information: Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment for firefighters: In the event of fire, wear self-protected breathing apparatus. Use personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Use respirator when performing operations involving potential exposure to vapor of the product. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Non-sparking tools should be used.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: Keep container tightly closed. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight. No smoking.

Further information on storage stability: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS No.	Value type (form of exposure)	Control Parameters/ Permissible Concentration	Basis
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		REL	1,000 ppm 1,900 mg/m ³	NIOSH/ GUIDE

Personal protective equipment

Respiratory protection: In the case of vapor formation use a respirator with an approved filter. Respirator with ABEK filter. Respirator with a vapor filter (EN 141)

Hand protection

Material: Nitrile rubber

Remarks: Wear protective gloves. Break through time: > 480 min

Eye protection: Safety glasses with side-shields conforming to EN166 Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Impervious clothing

Hygiene measures: Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid.

Color: light yellow

Odor: alcohol-like

Odor Threshold: No data available

pH: 6.5 - 9 (77 °F / 25 °C) Concentration: 100 g/l

Melting point/range: 10.0 °F / -12.2 °C

Boiling point/boiling range: no data available

Flash point: 106 °F / 41 °C Method: Setaflash Closed Tester (ASTM D3278), closed cup Method: ASTM 4206 Does not sustain combustion.

Evaporation rate: no data available

Flammability (solid, gas): no data available

Flammability (liquids): Does not sustain combustion.

Self-ignition: no data available

Upper explosion limit: no data available

Lower explosion limit: no data available

Vapor pressure: no data available

Relative vapor density: no data available

Relative density: no data available

Density: 0.89 g/cm³ (77 °F / 25 °C)

Water solubility: completely soluble

Partition coefficient: n-octanol/water: no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity, dynamic: < 100 mPa.s (77 °F / 25 °C)

Viscosity, kinematic: no data available

Explosive properties: no data available

Oxidizing properties: no data available

Minimum ignition energy: no data available

10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Stable under recommended conditions. Vapors may form explosive mixture with air.

Conditions to Avoid: Heat, flames and sparks

Incompatible Materials: Strong acids and strong bases, oxidizing agents

Hazardous Decomposition Products: No decomposition if used as directed

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity: Acute toxicity estimate: 297.5 mg/kg

Method: Calculation method

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD₅₀ (Rabbit): 4,178 mg/kg

Skin corrosion/irritation

Species: Rabbit

Exposure time: 1 h

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Species: Rabbit

Result: Risk of serious damage to eyes.

Assessment: Risk of serious damage to eyes.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity

Genotoxicity in vitro: No data available

Carcinogenicity: No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH: Confirmed animal carcinogen with unknown relevance to humans; Ethanol 64-17-5

REPRODUCTIVE TOXICITY

Effects on fertility: No data available

STOT

Single exposure: No data available

Repeated exposure: No data available

Aspiration toxicity: No aspiration toxicity classification

FURTHER INFORMATION

Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine. Solvents may degrease the skin.

THE FOLLOWING TOXICOLOGICAL DATA REFER TO: DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS-No.: 7173-51-5)

ACUTE TOXICITY

Acute oral toxicity: LD₅₀ (Rat): 238 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity: LD₅₀ (Rabbit); 3,342 mg/kg

Skin corrosion/irritation

Species: Rabbit

Exposure time: 3 min

Assessment: Causes burns.

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: yes

RESPIRATORY OR SKIN SENSITIZATION

Test Type: Buehler Test

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.

Method: US-EPA

Result: not sensitizing

GLP: yes

Test Type: Buehler

Test Species: Guinea pig

Method: OECD Test Guideline 406

Result: not sensitizing

GERM CELL MUTAGENICITY

Genotoxicity in vitro:

Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: yes

Method: OECD Test Guideline 471

Result: negative

GLP: yes:

Test Type: Chromosome aberration test in vitro

Species: Chinese hamster ovary cells

Metabolic activation: yes

Result: negative

GLP: yes:

Test Type: gene mutation test

Species: Chinese hamster ovary cells

Metabolic activation: yes

Result: negative

GLP: yes

GENOTOXICITY IN VIVO

Test Type: Chromosome aberration test in vivo

Species: Rat

Application Route: Oral

Dose: 600 mg/kg

Method: OECD Test Guideline 475

Result: negative

GLP: yes

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Ecotoxicity Toxicity to fish: No data available

Toxicity to terrestrial organisms: LD₅₀ (Colinus virginianus (Bobwhite quail)); 229 mg/kg

End point: Acute toxicity

Persistence and degradability: No data available

Bioaccumulative potential Bioaccumulation: No data available

Components: Ethanol: Partition coefficient: n-octanol/water: log Pow: -0.3

Mobility in soil Distribution among environmental compartments:

No data available

Other adverse effects

Ozone-Depletion Potential:

Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

Additional ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

THE FOLLOWING ECOTOXICOLOGICAL DATA REFER TO: DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS-No.: 7173-51-5)

ECOTOXICITY

Toxicity to fish:

LC₅₀ (Pimephales promelas (fathead minnow)): 0.19 mg/l

Exposure time: 96 h

Analytical monitoring: yes

Method: US-EPA

GLP: yes

Toxicity to daphnia and other aquatic invertebrates

EC₅₀ (Daphnia magna (Water flea)): 0.062 mg/l

Exposure time: 48 h

Test Type: Immobilization

Analytical monitoring: yes

Method: EPA-FIFRA

GLP: yes

NOEC (Daphnia magna (Water flea)): 0.014 mg/l

Exposure time: 21 d

Remarks: Geometric mean of multiple studies of equivalent relevance/quality (EU Active Substance Assessment Report, June 2015).

Toxicity to algae

ErC₅₀ (Pseudokirchneriella subcapitata (green algae)): 0.026 mg/l

Exposure time: 96 h

Test Type: Growth inhibition

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic toxicity): 10

Toxicity to fish (Chronic toxicity): NOEC (Danio rerio (zebra fish)): 0.032 mg/l

Exposure time: 34 d

Analytical monitoring: yes

Method: OECD Test Guideline 210

GLP: yes

Toxicity to microorganisms

EC50 (activated sludge): 11 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition

Method: OECD Test Guideline 209

GLP: yes

Toxicity to soil dwelling organisms

Test Type: Acute toxicity

NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg

Exposure time: 14 d

Method: OECD Test Guideline 207

GLP: yes

Plant toxicity

EC50: 283 - 1,670 mg/kg

Exposure time: 14 d

End point: Growth inhibition

Method: OECD

Test Guideline 208

Persistence and degradability Biodegradability

Test Type: Modified Sturm Test

Concentration: 10 mg/l

Result: Readily biodegradable.

Biodegradation: 72 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Test Type: Die-Away Test

Concentration: 0.016 mg/l

Biodegradation: 93.3 %

Exposure time: 28 d
GLP: yes
Test Type: OECD Confirmatory Test
Biodegradation: 91 %
Exposure time: 24 - 70 d
Method: OECD Test Guideline 303A
GLP: no

Stability in water

Test Type: Abiotic degradation
Method: EPA-FIFRA
GLP: yes

Bioaccumulative potential: No data available

Mobility in soil

Distribution among environmental compartments: Mobile in soils
Method: US-EPA

Other adverse effects: No data available

13. DISPOSAL CONSIDERATION

Disposal methods

Waste from residues: Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer. The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging: Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORTATION INFORMATION

DOT Hazardous Materials Description: Not Regulated (unless package contains a reportable quantity). Small sizes/quantities may be Limited Quantity. <0.3 gal

Proper Shipping Name: Disinfectants, liquid, corrosive n.o.s. (Didecyldimethylammonium chloride)

UN Number: UN1903

Hazard Class/Packing Group: 8, II

Labels Required: Class 8

Emergency Response Guidebook Number: 153

Environmental Hazards: No

15. REGULATORY INFORMATION

FIFRA Labeling:

Mold Care
EPA Reg. No. 6836-212-64405
Keep Out of Reach of Children
DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Anima 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.

EPA Registration number: 6836-212-6440

Signal word: DANGER!

Hazard statements: Corrosive – causes irreversible eye damage. Corrosive. Causes skin burns. Harmful if absorbed through skin. May be fatal if inhaled. This pesticide is toxic to fish.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

Hazard pictograms:



Signal word: DANGER!

Hazard statements: Fatal if swallowed. May be fatal if inhaled. Corrosive - causes irreversible eye damage. Corrosive. Causes skin burns. Pesticide is toxic to aquatic organisms.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS No.	Component RQ (lbs.)	Calculated product RQ (lbs)
Ethanol	64-17-5	100	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Sept. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS No.	Concentration
Ethanol	64-17-5	>=10 - <20%

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Components	CAS No.
Ethanol	64-17-5

Pennsylvania Right To Know

Components	CAS No.
Didecyldimethylammonium chloride	7173-51-5
Ethanol	64-17-5
Water	7732-18-5

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian lists

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

The components of this product are reported in the following inventories:

This product can only be used commercially in the EPA registered application(s) noted on the product label. :

This product is regulated under the following section(s) of the Code of Federal Regulations (CFR) as an incidental food additive: 21 CFR 178.1010.

16. OTHER INFORMATION

Full text of other abbreviations

ACGIH: US. ACGIH Threshold Limit Values

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - SelfAccelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act

(United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date: 02/18/2021

Revised: 8/17/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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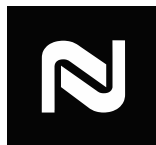
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CORPORATION

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SAFETY DATA SHEET

BORA-CARE®

TERMITICIDE, INSECTICIDE AND FUNGICIDE

Health Emergencies: INFOTRAC® (800) 535-5053

1. PRODUCT AND COMPANY INFORMATION

Product Identity: Bora-Care®

Recommended use of the chemical and restrictions on use: Termiticide, Insecticide, and Fungicide Concentrate. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

Manufacturer: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853

Telephone: Phone: (800) 264-0870
Fax: (865) 577-5825

Emergency Phone: 800-535-5053 (INFOTRAC)

SDS Date of Preparation: 02/20/20

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health	Environment
Not Hazardous	Acute Toxicity Oral Category 4 Specific Target Organ Toxicity – Repeat Exposure Category 2 Reproductive Toxicity Category 2	Aquatic Acute Toxicity Category 3

GHS Label Elements:

TE



Statements of Hazard

H302 Harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to kidneys by prolonged or repeated exposure by ingestion.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P260 Do not breathe mist or vapors.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P273 Avoid release to the environment.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Ethylene Glycol	107-21-1	40-60%
Disodium Octaborate Tetrahydrate	12280-03-4	40%
Non-Hazardous Ingredient	Proprietary	0-20%

The exact formulation is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.

Skin: Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Get immediate medical attention for large ingestions or if symptoms develop or if you feel unwell.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Most important Symptoms: May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for large ingestions.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

Specific hazards arising from the chemical: A solid stream of water or foam directed into hot, burning liquids can cause frothing. Burning may produce carbon monoxide, carbon dioxide, and ethylene oxide.

Special Protective Equipment and Precautions for Fire-Fighting Instructions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain all runoff.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. Avoid releases to the environment.

Methods and Materials for Containment and Cleaning Up: Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling. Wash thoroughly after using and change into clean clothing. Keep containers closed when not in use.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep out of reach of children. Do not freeze. Protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Ethylene Glycol	100 mg/m ³ Ceiling ACGIH TLV
Disodium Octaborate Tetrahydrate	2 mg/m ³ TWA ACGIH TLV (Inhalable)

6 mg/m ³ STEL ACGIH TLV (Inhalable)

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges with approved pesticide prefilter or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

Skin Protection: Wear impervious gloves such as butyl rubber, nitrile, neoprene, polyethylene, polyvinyl chloride, or Viton. Follow instructions for Category C on an EPA resistance category selection chart for more options.

Eye Protection: Wear safety goggles or glasses where splashing is possible.

Other: Wear long-sleeve shirts, long pants, socks and shoes when using this product. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear viscous gel with no odor.

Physical State: Viscous gel **Odor Threshold:** Not established

Vapor Density: Not determined

Initial Boiling Point/Range: >212°F (>100°C)

Solubility In Water: Soluble **Vapor Pressure:** Negligible

Relative Density: 1.38 **Evaporation Rate:** Not determined

Melting/Freezing Point: Not determined

pH: 6.9-7.1 (50% solution in water)

Percent Volatile: 36% by weight as water

Octanol/Water Coefficient: Not determined

Solubility: Soluble in water

Decomposition Temperature: Not determined

Viscosity: 8000-11,000 centipoise at room temperature

Flammability (solid, gas): N/A

Flashpoint: >220°F (104°C) TOC **Autoignition Temperature:** None

Flammable Limits: LEL: Not determined UEL: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: Avoid strong oxidizing agents and aluminum.

Hazardous Decomposition Products: When heated to decomposition emits carbon monoxide, carbon dioxide, and ethylene oxide.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Ingestion: Harmful if swallowed. Repeated or high levels of ingestion may cause potentially fatal kidney damage.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.

Eye: May cause slight irritation with redness, pain and tearing. Product was not irritating in a study with rabbits.

Skin: May cause irritation on prolonged or repeated contact. Product was not irritating in a study with rabbits. Negative in a guinea pig sensitization study.

Chronic: Ethylene glycol causes kidney damage through repeated ingestion.

Sensitization: This material is not known to cause sensitization.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Germ Cell Mutagenicity: No data available

Reproductive Toxicity: Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this finding to humans has not been determined.

Numerical Measures of Toxicity:

Product Toxicity Data:

Oral rat LD₅₀: >5000 mg/kg; Dermal rabbit LC₅₀: >5050 mg/kg;

Inhalation rat LC₅₀: >5.06 mg/L (no mortality was observed in any test)

Component Toxicity Data:

Ethylene Glycol: Oral rat LD₅₀: 4700 mg/kg; Dermal rabbit LC₅₀: 9530 mg/kg

Disodium Octaborate Tetrahydrate: Oral rat LD₅₀: 3500-4100 mg/kg; Dermal rabbit LD₅₀: >2000 mg/kg; Inhalation rat LC₅₀: >2.0 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Ethylene Glycol: LC₅₀ Fathead Minnow: <10,000 mg/L/96 hr.; EC₅₀ *Daphnia Magna*: 100,000 mg/L/48 hr; Bacterial (*Pseudomonas putida*): 10,000 mg/l; Protozoa (*Entosiphon sulcatum* and *Uronema parduczi*; Chatton-Lwoff): >10,000 mg/l; Algae (*Microcystis aeruginosa*): 2,000 mg/l; Green Algae (*Scenedesmus quadricauda*): >10,000 mg/l
Disodium Octaborate Tetrahydrate: EC₁₀ Green Algae: 24 mg B/L/96 hr; LC₅₀ *Daphnia Magna*: 133 mg B/L/48 hr; NOEC-LOEC *Daphnia Magna*: 6-13 mg B/L/21-day; LC₅₀ *Limanda limanda*: 74 mg B/L/96 hr; LC₅₀ Rainbow Trout: 150 mg B/L/24-day, 100 mg B/L/32-day; LC₅₀ Goldfish: 46 mg B/L/7-day, 178 mg B/L/3-day

This product is classified as harmful to the aquatic environment. Releases to the environment should be avoided.

Persistence and Degradability: Ethylene glycol is readily biodegradable (97-100% in 2-12 days). Boron is naturally occurring and ubiquitous in the environment. Disodium Octaborate Tetrahydrate degrades to boron.

Bioaccumulative Potential: Ethylene glycol: A BF of 10 reported for ethylene glycol in fish, Golden ide (*Leuciscus idus melanotus*), after 3 days of exposure suggests the potential for bio concentration in aquatic organisms is low. Disodium Octaborate Tetrahydrate: Log K_{ow}: -0.7570 at 25°C.

Mobility in Soil: Disodium Octaborate Tetrahydrate is soluble in water and is leachable through normal soil.

Other Adverse Effects: Some plants are sensitive to boron. Avoid releases into the environment. This product is designed to be used for certain types of wood destroying insects. Use product only as directed on the label. Avoid all unintended releases and releases to ground water. Do not apply to water or to intertidal 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. See product label for full instructions and restrictions on use.

13. DISPOSAL CONSIDERATION

Dispose in accordance with local, state and federal environmental regulations. Do not contaminate water when disposing of washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, ocean, or other water 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.

14. TRANSPORTATION INFORMATION

DOT Hazardous Materials Description: Not Regulated (unless package contains a reportable quantity)

Note: If a shipment of a reportable quantity (10,000 lbs/870 gal) in a single package is involved, the following information applies:

Proper Shipping Name: RQ, Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

UN Number: UN3082

Hazard Class/Packing Group: 9, III

Labels Required: Class 9

IATA: Not Regulated

IMDG: Not Regulated

15. REGULATORY INFORMATION

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.

FIFRA Labeling:

Bora-Care
EPA Reg. No. 64405-1
Keep Out of Reach of Children
CAUTION
PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals

PRECAUTIONARY STATEMENTS

Wear long sleeved shirt & long pants, socks, shoes and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride (PVC), Viton or others listed in Category C on an EPA chemical resistance category selection chart).

CERCLA: This product has a reportable quantity (RQ) of 10,000 lbs based on the RQ for ethylene glycol of 5,000 lbs present at 40-50%. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA Hazard Category (311/312): Acute Health, Chronic Health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol 107-21-1 40-50%

EPA TSCA Inventory: This product is regulated under FIFRA, thus exempt.

16. OTHER INFORMATION

NFPA Rating:

Health = 2 Flammability = 1 Instability = 0

HMIS Rating:

Health = 2 Flammability = 1 Physical Hazard = 0

SDS Revision History: 11/01/03: New SDS
02/20/20: Revised

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