SAFETY DATA SHEET



Health Emergencies: CHEMTREC® (800) 424-9300

1. PRODUCT AND COMPANY INFORMATION

Product Identity: Bora-Care® Commercial

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

Fax: (865) 577-5825

Telephone: Phone: (800) 264-0870

Emergency Phone: 800-424-9300 (CHEMTREC)

SDS Date of Preparation: 4/30/15

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:





Signal Word: Warning!

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: Move 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 product 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 Relative Density: 1.38 Vapor Pressure: Negligible 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 LD $_{50}$: 3500-4100 mg/kg; Dermal rabbit LD $_{50}$: >2000 mg/kg; Inhalation rat LC $_{50}$: >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 quandricauda): >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 Iimanda: 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

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 Commercial
EPA Reg. No. 83465-1
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 40-60%. 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 40-60%

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

04/28/15: Revised

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