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.

Manufacturer: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853 USA

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

Emergency Phone: INFOTRAC
North America 800-535-5053
International 352-323-3500

Canadian Registration Number: 30157 Pest Control Products Act

SDS Date of Preparation: May 4, 2018

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Canadian Pest Control Products Act (CPCPA) and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015). Please see CPCPA label for additional information.

Appearance: Clear, viscous liquid
Physical State: liquid
Odour: Characteristic

Classification:
Acute Toxicity – Oral: Category 4
Specific Target Organ Toxicity (STOT) – Repeated Exposure: Category 2

Signal Word: Warning

Hazard Statements
Harmful if swallowed.
May cause damage to kidneys by prolonged or repeated exposure by ingestion.

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary Statements - Response
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

Precautionary Statements - Disposal
and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight-%
Ethylene Glycol	107-21-1	30-60%

4. FIRST AID MEASURES

General Advice: Immediate medical attention is required for large ingestions.

Eye contact: Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.
Skin contact: Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.
Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.
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.

Most important symptoms and effects: 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.

Note to doctors: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Suitable Extinguishing Media: A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material
Specific hazards arising from the chemical: No information available.
Hazardous Combustion Products: Burning may produce carbon monoxide, carbon dioxide and ethylene oxide
Explosion Data
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: None.
Special protective equipment fire fighters: F Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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.

Environmental precautions: Avoid releases to the environment.

Methods and material for containment and cleaning up: Prevent further leakage or spillage if safe to do so. 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.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

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.

Storage conditions: Keep containers closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible materials. Keep out of the reach of children. Protect from physical damage.

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

Incompatible materials: Avoid strong oxidizing agents and aluminum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
Ethylene glycol 107-21-1	Ceiling: 100 mg/m^3	TWA: 10 mg/m^3 STEL: 20 mg/m^3 Ceiling: 100 mg/m^3 Ceiling: 50 ppm	CEV: 100 mg/m^3	Ceiling: 50 ppm Ceiling: 127 mg/m^3
Disodium octaborate tetrahydrate 12280-03-4		TWA: 2 mg/m^3 STEL: 6 mg/m^3		

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Suitable washing facilities should be available in the work area.

Eye/Face Protection: Wear safety goggles or glasses where splashing is possible.
Skin/Body 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. Wear long sleeve shirts, long pants, socks and shoes when using this product.
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.
General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

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: Contact with acids liberates toxic gas.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: None known.
Conditions to Avoid: Incompatible Materials.
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:
Eye: Avoid contact with eyes. **Skin:** Avoid contact with skin.
Inhalation: Do not inhale. **Ingestion:** Harmful if swallowed.
Information on physical, chemical and toxicological effects
Symptoms: Please see section 4 of this SDS for symptoms.
Numerical measures of toxicity

Acute Toxicity
The following values are calculated based on chapter 3.1 of the GHS document.
ATEmix (oral) 735.00
ATEmix (inhalation-dust/mist) 2.50

Unknown acute toxicity: No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	-
Disodium octaborate tetrahydrate 12280-03-4	= 2500 mg/kg (Rat)	-	-

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

Carcinogenicity: Based on available data, the classification criteria are not met. **Reproductive toxicity:** Sodium Borate: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth.

The above-mentioned animal studies were conducted under exposure conditions leading to doses many times in excess of those that could occur through product use or inhalation of dust in occupational settings. Moreover, a human study of occupational exposure to sodium borate and boric acid dusts showed no adverse effect on fertility.

STOT - repeated exposure: May cause damage to organs.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability: Readily biodegradable.
Bioaccumulative Potential: No information available.

Chemical Group	Partial Coefficient
Ethylene Glycol 107-21-1	-1.93

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATION

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORTATION INFORMATION

Note: This product is NOT REGULATED for transportation unless the package contains a reportable quantity. If a shipment of a reportable quantity (10,000 lbs/ 870 gal in a single package) is involved, the following DOT information applies:

DOT

UN/ID No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)
Hazard Class: 9
Packing Group: III
Reportable Quantity (RQ): 10,000 lbs/ 870 gal
TDG

UN/ID No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)
Hazard Class: 9
Packing Group: III
IATA: Not Regulated

IMDG: Not Regulated

15. REGULATORY INFORMATION

Ozone-depleting substances (ODS) Not applicable
Persistent Organic Pollutants Not applicable
Export Notification requirements Not applicable
International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELINCS
Ethylene glycol	X	X	X

ENCS	IECSC	KECL	PICCS	AICS
X	X	X	X	X

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

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
11/06/19: Revised

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