

# Material Safety Data Sheet

## BORA-CARE®

Health Emergencies: CHEMTREC®

### SECTION I – PRODUCT IDENTIFICATION

Manufacturer: Nisus Corporation  
215 Dunavant Drive  
Rockford, TN 37853  
(800) 264-0870 Fax: (423) 577-5825

Product Trade Name: **BORA-CARE®**  
EPA Registration No.: 64405-1  
Chemical Family: Glycol borate solution  
Formula: Proprietary Mixture CAS No.: N/A  
DOT Hazard Classification: Not Regulated  
Hazard Rating: NFPA Health 1 Slight hazard  
Flammability 0  
Reactivity 0

### SECTION II – HAZARDOUS INGREDIENTS

Material or Component: Ethylene Glycol CAS No.: 107-21-1  
TLV 50.00 ppm ACGIH Type CEIL

### SECTION III – PHYSICAL DATA

Appearance: Clear viscous gel Specific Gravity: 1.38 g/ml  
% Volatile: 60% by weight Vapor Pressure: Negligible  
Boiling Point: Above 212° F Odor: None  
pH: 50% aqueous solution 6.9 – 7.1 % Solubility in Water: 100%

### SECTION IV – HEALTH HAZARD INFORMATION

**EYE CONTACT:** This material may cause eye irritation. Direct contact may cause burning, tearing and redness in sensitive individuals.

**SKIN CONTACT:** This material is essentially non-irritating. Prolonged or repeated exposure to this material may cause softening of the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

**INGESTION:** This material can be harmful if swallowed. It is slightly toxic to humans (oral lethal dose: greater than 5.0 g/kg). Ingestion of large amounts may cause nausea, mental sluggishness followed by difficulty in breathing and heart failure, kidney and brain damage, possibly death

**INHALATION:** Breathing high concentrations of vapors may cause nausea, dizziness or drowsiness, and irritation of the nose and throat. Pre-existing lung disorders may be aggravated by exposure to this material.

**COMMENTS:** None of the major constituents of this material have been identified as carcinogens or probable carcinogens by IARC or OSHA.

Ethylene glycol may cause congenital malformations (teratogenic) in mice and rats when administered by gavage or in the drinking water during organogenesis; not teratogenic when fed in the diet. Pre-existing kidney disorders may be aggravated by exposure to this material.

Acute oral LD<sub>50</sub> – greater than 5gm/kg body weight (Sprague-Dawley male and female rats).

Acute dermal LD<sub>50</sub> – greater than 2gm/kg body weight (New Zealand Albino male and female rabbits).

Acute inhalation LC<sub>50</sub> – greater than 5mg/L for 4 hours (Sprague-Dawley male and female rats).

Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal.

## SECTION V – EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Flush eyes with clean water for 15 minutes. If irritation persists, seek medical attention.  
**SKIN CONTACT:** Remove contaminated clothing. Cleanse affected area thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.  
**INHALATION:** If irritation of the nose or throat develops, move away for the source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.  
**INHALATION:** SEEK EMERGENCY MEDICAL ATTENTION. If the victim is drowsy or unconscious, place on the left side with the head down. Do not give anything by mouth. If victim is conscious and alert, vomiting should be induced for ingestion of more the 1 – 2 tablespoons for and adult, preferably with syrup of ipecac under direction from a physician or poison center. If syrup of ipecac is not available, vomiting can be induced by gently placing two fingers in back of throat. If large amounts are ingested, treat for borate toxicity. If possible, do not leave victim unattended.

## SECTION VI – REACTIVITY DATA

**STABILITY:** Stable  
**CONDITIONS TO AVIOD:** Exposure to strong oxidizing agents.  
**INCOMPATIBILITY (MATERIALS TO AVOID):** This material is incompatible with strong oxidizing agents. This product may corrode aluminum  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Ethylene oxide, carbon monoxide, carbon dioxide.

## SECTION VII – FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** Above 220° F (Tag Closed Cup)  
**FLAMMABLE LIMITS:** Not known.  
**EXTINGUISHING MEDIA:** CO<sub>2</sub>, dry powder or universal type foam.  
**FIRE AND EXPLOSION HAZARDS:** Avoid inhaling smoke. The use of a SCBA is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame.

## SECTION VIII – SPILL OR LEAK PROCEDURES

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:** Absorb with organic liquid absorbent. Do not let material or washwaters enter sewers or waterways.  
**WASTE DISPOSAL METHOD:** Contact your State Pesticide, Environmental Control Agency or local authorities for proper disposal guidelines.

## SECTION IX – SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Good ventilation.  
**VENTILATION:** Exhaust to ventilate.  
**PROTECTIVE GLOVES:** The use of solvent resistant gloves is advised.  
**EYE PROTECTION:**  
**OTHER PROTECTIVE EQUIPMENT:** It is recommended that a source of clean water be available in the work area for flushing eyes and washing skin.

## SECTION X – SPEACIAL PRECAUTIONS

**HANDLING AND STORAGE PRECUTIONS:** Store between 40° F and 90° F. Do not store in direct sunlight. Keep containers tightly closed.  
**OTHER PRECAUTIONS:** Keep away from children and pets. Toxic to plants and shrubbery.

*“The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This information and product are furnished on the condition that the persons receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use there of.”*

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