FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### FORMULATED FOR:

LOVELAND PRODUCTS, INC. P.O. Box 1286 • Greeley, CO 80632-1286		U.S. C	24-Hour Emergency Phone: 1-800-424-9300 Medical Emergencies: 1-866-944-8565 U.S. Coast Guard National Response Center: 1-800-424-8802		
PRODUCT NAME: CHEMICAL NAME: CHEMICAL FAMILY: EPA REG, NO.:	BOROSOL® 10 Boric Acid (H <sub>3</sub> BO <sub>3</sub> ) Compound with Mon Micronutrient not applicable	noethanolamine; Aqueous Polybo	orate solution		
MSDS Number: 71007		Section 9 Date	e of Issue: 05/02/12	Supersedes: 07/14/11	

### 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION** – Avoid contact with eyes and clothing. Avoid prolonged contact with skin. Do not take internally. Do not inhale vapors. Wear goggles and gloves when handling.

This product is a clear, colorless to pale yellow liquid with mild odor. Primary routes of entry are Inhalation, eye contact and skin contact.

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)			
Boric Acid (H <sub>3</sub> BO <sub>3</sub> ) Compound, inc Monoethanolamine	luding 10.00	26038-87-9 141-43-5	Not established 7.5 mg/m <sup>3</sup>			
Inert ingredients	90.00	0-0-141				
4. FIRST AID MEASURES						
	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.					
If in eyes: Hol	Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.					
	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.					
If on skin or clothing: Tak		nately with plenty of water for 13-20 mint				
If on skin or clothing: Tak doc If swallowed: Cal Do		for treatment advice. Have person sip a	glass of water if able to swallow.			

#### FLASH POINT (°F/Test Method): Not applicable FLAMMABLE LIMITS (LEL & UEL): Not applicable **EXTINGUISHING MEDIA:** Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog. HAZARDOUS COMBUSTION PRODUCTS: Oxides of nitrogen and other unknown hazardous material may be formed. SPECIAL FIRE FIGHTING PROCEDURES: Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear. UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination of water supplies. 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing mists. Sweep up liquid spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

### 7. HANDLING AND STORAGE

HANDLING: STORAGE: Wear goggles and gloves when handling. Keep away from children, food and feed products. Store in a cool place out of direct sunlight. Keep container tightly closed when not in use. May be stored in an unheated facility. Keep from freezing. Do not contaminate water supplies by handling and storage of product.

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION** 8

ENGINEERING CONTROLS: RESPIRATORY PROTECTION:	Not normally required. Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.
EYE PROTECTION: SKIN PROTECTION:	Chemical goggles or shielded safety glasses. Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical- resistant gloves.

**OSHA PEL 8 hr TWA** 

 $6 \text{ mg/m}^3$ 

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear, colorless to pale yellow liquid with mild odor SPECIFIC GRAVITY (Water = 1): 1.325g/ml VAPOR PRESSURE: Not established

BULK DENSITY: 11.05 lbs/gal. BOILING POINT: >200°F/>93.4°C SOLUBILITY: Soluble **pH:** 8.25 (neat)

CONDITIONS TO AVOID: Excessive heat.

ACGIH TLV-TWA

 $7.5 \text{ mg/m}^3$ 

EVAPORATION RATE (Butyl Acetate = 1): 1 PERCENT VOLATILE (by volume): Not applicable These physical data are typical values based on material tested but may vary from sample to sample. Note:

Monoethanolamine

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

#### **10. STABILITY AND REACTIVITY**

STABILITY: Stable

**INCOMPATIBILITY:** Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and other unknown hazardous material may be formed in a fire situation.

#### HAZARDOUS POLYMERIZATION: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

Acute Oral LD<sub>50</sub> (rat): >5000 mg/kg Eye Irritation (rabbit): May cause slight irritation Inhalation LC<sub>50</sub> (rat): May cause respiratory tract irritation. Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

Acute Dermal LD<sub>50</sub> (rabbit): >5000 mg/kg Skin Irritation (rabbit): May cause slight irritation Skin Sensitization (guinea pig): Not established

#### 12. ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

### 13. DISPOSAL CONSIDERATIONS

Do not reuse container. Triple rinse (or equivalent), and add rinsate to mixing tank. Then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. Do not contaminate water, food, or feed by storage or disposal.

#### TRANSPORT INFORMATION 14.

DOT Shipping Description: NOT REGULATED BY USDOT.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)

#### **15. REGULATORY INFORMATION**

NFPA & HMIS Hazard Ratings:

NFPA

0

- 1 Health 0 Flammability
  - Instability
    - 2 3

0

1

4

High Severe

Least

Slight

Moderate

1 Health 0

HMIS

- Flammability 0 Reactivity
- В PPE

# MATERIAL SAFETY DATA SHEET

# **BOROSOL® 10**

SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Delayed	Y N	Fire Reactive	<u>     N                               </u>	Sudden Release of Pressure <u>N</u>
Reportable Quantity (RQ) under U.S. ( SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: WARNING: This pr harm.			wn to the Sta	te of California	a to cause cancer or birth defects or other reproductive

## 16. OTHER INFORMATION

**MSDS STATUS:** Section 9 revised. **PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

®Borosol is a registered trademark of Loveland Products Inc.

Information regarding the contents and levels of metals in this product is available on the Internet at http://www.regulatory-info-lpi.com

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, Inc. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.