

# MATERIAL SAFETY DATA SHEET

# SURFATE® SPRAY ADJUVANT

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

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**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:** SURFATE® SPRAY ADJUVANT  
**CHEMICAL NAME:** Non-ionic Surfactant  
**CHEMICAL FAMILY:** Water Conditioner-Nonionic Surfactant Blend  
**CA REG. NO.:** Not applicable  
**WA REG. NO.:** Not applicable  
**MSDS Number:** 8200980-10-LPI      **MSDS Revisions:** Sections 1, 4 and 13      **Date of Issue:** 07/21/10      **Supersedes:** 01/15/09

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION –** May cause irritation to skin and eyes. Wear long-sleeved shirt and long pants, socks, shoes and gloves when handling.

This product is a brown-colored liquid with mild, soapy, amine-like odor. Primary routes of entry are eye contact and skin contact.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Ammonium Sulfate,		7783-20-2	none established
Alkylpolyglycosides, and			none established
Dimethylpolysiloxane	50.00		none established
Inert Ingredients	50.00		

## 4. FIRST AID MEASURES

**If in eyes:** Hold eye open and rinse slowly and gently with water for 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.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.  
**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.  
**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-866-944-8565**.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** >200°F/>93.3°C (TCC)  
**FLAMMABLE LIMITS (LFL & UFL):** Not established  
**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** May include but are not limited to oxides of carbon and oxides of sulfur.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

## 6. ACCIDENTAL RELEASE MEASURES

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

Avoid breathing vapors and contact with liquid. Collect as much liquid as possible in a clean container for reuse or absorb and sweep up immediately and transfer to suitable containers for disposal. Flush spill area with water after clean up. 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:** Wear long-sleeved shirt and long pants, socks, shoes and gloves when handling.  
**STORAGE:** Store in a cool, dry place. Store in original container. Keep tightly closed. Freezing will not ham product. Do not contaminate water, food or feed storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Work in well-ventilated area, local exhaust may be required if working in confined space.  
**RESPIRATORY PROTECTION:** Not normally required, if vapors or dusts exceed acceptable levels, wear a NIOSH/ MSHA approved pesticide respirator.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear waterproof or chemical-resistant gloves.

**OSHA PEL 8 hr TWA**  
not listed

**ACGIH TLV-TWA**  
not listed

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Brown-colored liquid with mild, soapy, amine-like odor. **SOLUBILITY:** Soluble  
**SPECIFIC GRAVITY (Water = 1):** 1.214g/ml **BULK DENSITY:** 10.13 lbs/gal. **pH:** 7.8 (1% solution)  
**VAPOR PRESSURE:** Not established **BOILING POINT:** Not established  
**PERCENT VOLATILE (by volume):** Not established **EVAPORATION RATE:** Not established  
 Note: These physical data are typical values based on material tested but may vary from sample to sample.  
 Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable **CONDITIONS TO AVOID:** High alkaline conditions.  
**INCOMPATIBILITY:** Strong oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** May include but are not limited to oxides of carbon and oxides of sulfur in a fire situation.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** >2000 mg/kg **Acute Dermal LD<sub>50</sub> (rabbit):** >2000 mg/kg  
**Eye Irritation (rabbit):** Not established **Skin Irritation (rabbit):** Not established  
**Inhalation LC<sub>50</sub> (rat):** Not established **Skin Sensitization (guinea pig):** Not established  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC or ACGIH

**12. ECOLOGICAL INFORMATION**

Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

**13. DISPOSAL CONSIDERATIONS**

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill, or by other procedures approved by appropriate authorities. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at [www.acrecycle.org](http://www.acrecycle.org). Do not contaminate water, food or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT  
**U.S. Surface Freight Classification:** ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60)  
 Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes

**15. REGULATORY INFORMATION**

NFPA & HMIS Hazard Ratings:		NFPA	HMIS
		1 Health	0 Least
		0 Flammability	1 Slight
		1 Instability	2 Moderate
			3 High
			4 Severe
			1 Health
			0 Flammability
			1 Reactivity
			H PPE

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**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed

**SARA, Title III, Section 313:** Not listed

**RCRA Waste Code:** Not listed

**CA Proposition 65:** None listed

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## 16. OTHER INFORMATION

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**MSDS STATUS:** Sections 1, 4 and 13 revised

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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