

# SAFETY DATA SHEET

HIGHMARK™

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

**CHEMICAL IDENTITY:** PARAFFINIC BASE PETROLEUM OIL  
**PRODUCT USE:** HIGH SURFACTANT OIL CONCENTRATE  
**CA REG. NO.:** Not applicable  
**WA REG. NO.:** Not applicable  
**SDS Number:** 1000521221-14-LPI **MSDS Revisions:** New

**Date of Issue:** 01/13/14

**Supersedes:** New

## 2. HAZARDS IDENTIFICATION SUMMARY

### KEEP OUT OF REACH OF CHILDREN –

**Emergency overview: CAUTION:** Causes moderate eye irritation. May cause skin and respiratory tract irritation.

**OSHA Regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (the Hazard Communication standard)

### Potential Health effects

#### Routes of exposure

Inhalation. Ingestion. Skin absorption.

#### Eyes

Causes moderate eye irritation.

#### Skin

Mildly irritating to skin.

#### Inhalation

May be irritating to respiratory system.

#### Ingestion

May be irritating to mouth, throat, and stomach.

#### Target organs

Skin. Eyes. Inhalation.

#### Signs and symptoms

Causes moderate irritation to the eyes. May cause irritation to skin, gastrointestinal tract, and respiratory system.

#### Potential environmental effects

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Tridecyl alcohol, ethoxylated, phosphated	1.0 - 10	9046-01-9	not listed
n-Butanol	1.0 - 10	71-36-3	61 mg/m <sup>3</sup>

## 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:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.

**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. Call a poison control center or doctor for treatment advice.

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

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** >189°F / >87°C (PMCC)

**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:** Use with adequate ventilation. Wear safety glasses or goggles. Wear waterproof or chemical-resistant gloves when handling.  
**STORAGE:** Store in a cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Product will become thicker at cold temperatures. Warm product before use. Do not contaminate water, food or feed by 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 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	ACGIH TLV-TWA
n-Butanol	300 mg/m <sup>3</sup>	61 mg/m <sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Clear yellow-colored liquid with mild odor  
**SPECIFIC GRAVITY (Water = 1):** 0.910 g/ml  
**VAPOR PRESSURE:** Not established  
**PERCENT VOLATILE (by volume):** ~1.5  
**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.

**BULK DENSITY:** 7.59 lbs/gal. / 0.91 kg/L  
**BOILING POINT:** Not established  
**EVAPORATION RATE:** Not established

**SOLUBILITY:** Dispersible  
**pH:** 4.14 (Neat)

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** High alkaline conditions.  
**INCOMPATIBILITY:** Strong bases and 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):** 2,292 mg/kg (based on a product component)  
**Eye Irritation (rabbit):** Moderate irritant  
**Inhalation LC<sub>50</sub> (rat):** Not established  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC or ACGIH

**Acute Dermal LD<sub>50</sub> (rabbit):** 3430 mg/kg (based on a product component)  
**Skin Irritation (rabbit):** Mild irritant  
**Skin Sensitization (guinea pig):** Not established

**12. ECOLOGICAL INFORMATION**

Do not apply directly to water, or to areas where surface water is present, or to intertidal area below the mean high water mark. 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. Recycling decontaminated containers is the best option of container disposal. 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 <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	1	Health
2	Flammability	1	Slight	2	Flammability
0	Instability	2	Moderate	0	Reactivity
		3	High	B	PPE
		4	Severe		

**SARA Hazard Notification/Reporting**

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

**Reportable Quantity (RQ) under U.S. CERCLA:** n-Butanol (CAS: 71-36-3) 5,000 lbs.

**SARA, Title III, Section 313:** n-Butanol (CAS: 71-36-3)

**RCRA Waste Code:** U031 (n-Butanol)

**CA Proposition 65:** Not listed

**16. OTHER INFORMATION**

**MSDS STATUS:** New

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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