

## MATERIAL SAFETY DATA SHEET

ACTIVATOR 90

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: 1-800-301-7976  
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: ACTIVATOR 90  
CHEMICAL NAME: Mixture of Alkyl Polyoxyethylene Ether, free fatty acids and water  
CHEMICAL FAMILY: Surfactant  
CALIF. REG. NO.: 34704-50034  
WASH. REG. NO.: 34704-04001  
MSDS Number: .153586-08-LPI      MSDS Revisions: Sections 2, 4, 13      Date Of Issue: 10/06/08      Supersedes: 12/13/06

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN - CAUTION** – Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

This product is an amber colored liquid with a fatty odor.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Alkyl Polyoxyethylene ether and free fatty acids	90.00	Mixture	none established
Other Ingredients	10.00		

## 4. FIRST AID MEASURES

**If on Skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.  
**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.  
**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the 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 by mouth-to-mouth, if possible.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** >230°F / >110°C  
**FLAMMABLE LIMITS (LFL & UFL):** Not established  
**EXTINGUISHING MEDIA:** Water fog, alcohol foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.  
**HAZARDOUS COMBUSTION PRODUCTS:** None known.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire. Spilled material creates extremely slippery conditions, use caution. Wear self-contained breathing apparatus and full protective gear.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Petroleum hydrocarbon component is combustible. Vapors or fumes will ignite and flashback.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear appropriate personal protective equipment (refer to Section 8) when responding to spills. Shut off source of leak if safe to do so. Dike and contain spill. Soak up residue with absorbent such as clay, sand or other suitable material and dispose of properly. Flush area with water to remove trace residue. Contain runoff from residue flush and dispose of properly. Place in container for proper 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:** Wear impervious gloves when handling. Keep away from heat, sparks, and flames while in use. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Keep away from children, feed and foodstuffs, fertilizers and seed.  
**STORAGE:** Store in a cool, dry place. Store in original container. Keep container tightly closed. Do not reuse empty container. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not required.  
**RESPIRATORY PROTECTION:** Wear a NIOSH approved respirator if necessary.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing. Wear impervious rubber or chemical-resistant gloves.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
For product	not established	not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b> Amber colored liquid with a fatty odor	<b>BULK DENSITY:</b> 8.35 lbs/gal.	<b>SOLUBILITY:</b> Soluble
<b>SPECIFIC GRAVITY (Water = 1):</b> 1.001 g/ml	<b>BOILING POINT:</b> 101.2°C/215°F	<b>pH:</b> 6.0 (neat)
<b>VAPOR PRESSURE:</b> Not established	<b>EVAPORATION RATE:</b> Not established	
<b>PERCENT VOLATILE (by volume):</b> 65.0%		

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:** None known.  
**INCOMPATIBILITY:** Avoid contact with strong oxidizers, strong acids and bases at high temperatures.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide from burning.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD<sub>50</sub> (rat):</b> 3870-5000 mg/kg	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> >2000 mg/kg
<b>Eye Irritation (rabbit):</b> Mild to moderate irritant	<b>Skin Irritation (rabbit):</b> Minor irritant
<b>Inhalation LC<sub>50</sub> (rat):</b> 1.42 mg/L (4 HR)	<b>Skin Sensitization (guinea pig):</b> Not a sensitizer.
<b>Carcinogenic Potential:</b> None listed by OSHA, NTP, IARC, and ACGIH as a carcinogen	

**12. ECOLOGICAL INFORMATION**

**Aquatic Acute Toxicity:**  
**Guppy:** 96 HR LC<sub>50</sub> 12.7 mg/L – 96 HR No Effect: 5.8 mg/L – **Daphnia Magna:** 24 HR EC<sub>50</sub> 5.2 mg/L – 24 HR No Effect 1 mg/L.

**13. DISPOSAL CONSIDERATIONS**

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 state and local 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 locale ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Wastes may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**Freight Classification:** ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: LTL 60, TL 35)  
 Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	<b>NFPA</b>		<b>HMIS</b>
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

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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: Not listed

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## 16. OTHER INFORMATION

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MSDS STATUS: Sections 2, 4, and 13 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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