

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: ACT90-06-LPI

MSDS Revisions: Section 16

Date Of Issue: 12/13/06

Supersedes: 07/20/04

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN. CAUTION – Liquid causes eye injury

This product is an amber colored liquid with a fatty odor. Avoid contact with eyes, skin, or clothing. Harmful if swallowed.

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 in Eyes: Flush with plenty of water for at least 15 minutes, then get medical attention.
If on Skin: Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists.
If Swallowed: Call a physician immediately. Induce vomiting promptly.
If Inhaled: Move victim to fresh air; apply artificial respiration if necessary.

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 (CO₂) 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 tightly closed. Do not reuse empty container. Keep out of reach of children. 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.

| | | |
|-------------|--------------------------|----------------------|
| | OSHA PEL 8 hr TWA | ACGIH TLV-TWA |
| For product | not established | not established |

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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

Acute Oral LD₅₀ (rat): 3870-5000 mg/kg
Eye Irritation (rabbit): Mild to moderate irritant
Inhalation LC₅₀ (rat): 1.42 mg/L (4 HR)
Carcinogenic Potential: None listed by OSHA, NTP, IARC, and ACGIH as a carcinogen
Acute Dermal LD₅₀ (rabbit): >2000 mg/kg
Skin Irritation (rabbit): Minor irritant
Skin Sensitization (guinea pig): Not a sensitizer.

12. ECOLOGICAL INFORMATION

Aquatic Acute Toxicity:
Guppy: 96 HR LC₅₀ 12.7 mg/L – 96 HR No Effect: 5.8 mg/L – **Daphnia Magna:** 24 HR EC₅₀ 5.2 mg/L – 24 HR No Effect 1 mg/L.

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Plastic Jugs: Triple rinse (or equivalent), adding rinse water to spray tank, then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, 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 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

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

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

16. OTHER

MSDS STATUS: Revised Disclaimer

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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