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:

-	RODUCTS, INC. • 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: CHEMICAL NAME: CHEMICAL FAMILY: CA REG. NO.: WA REG. NO.: MSDS Number: 80005	ACTIVATOR 90 Mixture of Alkyl Polyoxyethylene Ether, free fatty acids and water Surfactant 34704-50034 34704-04001 86-10-LPI MSDS Revisions: Sections 1 and 4	Date Of Issue: 07/07/10	Supersedes: 10/06/08	

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.

Chemical Ingredients: Per		entage by Weight:	CAS No.	<u>TLV (Units)</u>		
Alkyl Polyoxyethylene ether Other Ingredients	and free fatty acids	90.00 10.00	Mixture	none established		
4. FIRST AID MEASU	RES					
lf on Skin or clothing: lf in Eyes:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. 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 resperation by mouth-to mouth, if possible.					
FOR A MEDICAL EMERGENC		CT CALL: 1-866-944-8565.				
5. FIRE FIGHTING M	EASURES					
FLASH POINT (°F/Test Me		>230 ^o F / >110 ^o C				
FLAMMABLE LIMITS (LFL & UFL): EXTINGUISHING MEDIA:		Not established Water fog, alcohol foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.				
HAZARDOUS COMBUST	ON PRODUCTS:	None known.		angusti names.		
SPECIAL FIRE FIGHTING	PROCEDURES:		tainers exposed to fire. Spilled material			
	UNUSUAL FIRE AND EXPLOSION HAZARDS:		conditions, use caution. Wear self-contained breathing apparatus and full protective gear. Petroleum hydrocarbon component is combustible. Vapors or fumes will ignite and flashback.			
	PLUSION HAZARDS.	i olioioanniyarooanoon oor		0		

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

	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,
STORAGE:	fertilizers and seed. 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.

MATERIAL SAFETY DATA SHEET

EXPOSURE CONTROLS / PERSONAL PROTECTION Not required. ENGINEERING CONTROLS: **RESPIRATORY PROTECTION:** Wear a NIOSH approved respirator if necessary. Chemical goggles or shielded safety glasses. EVE PROTECTION. 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 PHYSICAL AND CHEMICAL PROPERTIES 9 SOLUBILITY: Soluble APPEARANCE AND ODOR: Amber colored liquid with a fatty odor SPECIFIC GRAVITY (Water = 1): 1.001 g/ml BULK DENSITY: 8.35 lbs/gal. **pH:** 6.0 (neat) VAPOR PRESSURE: Not established BOILING POINT: 101.2°C/215°F PERCENT VOLATILE (by volume): 65.0% EVAPORATION RATE: Not established These physical data are typical values based on material tested but may vary from sample to sample. Note: 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 Acute Dermal LD₅₀ (rabbit): >2000 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

Skin Irritation (rabbit): Minor irritant Skin Sensitization (guinea pig): Not a sensitizer.

ECOLOGICAL INFORMATION 12.

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

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 local 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

NFPA & HMIS Hazard Ratings:

NFPA

1

- Health
- 0 Flammability 0 Instability
 - 1 2 Moderate 3 High

0

4 Severe

Least

Slight

Health 1

HMIS

- 0 Flammability
- 0 Reactivity PPE
- н

MATERIAL SAFETY DATA SHEET

ACTIVATOR 90

SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Delayed	<u>Y</u> N	Fire Reactive	<u>N</u> N	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: Not listed		listed				

16. OTHER INFORMATION

MSDS STATUS: Sections 1 and 4 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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