

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

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- 1.1 **PRODUCT IDENTIFIER:**  
**TRADE NAME:** EMULSIFIER BLEND
- 1.2 **RECOMMENDED USE:** FOR USE WITH LOW-VOLUME BASAL APPLICATIONS
- 1.3 **SUPPLIER DETAILS:**  
 LOVELAND PRODUCTS, INC.  
 P.O. Box 1286 • Greeley, CO 80632-1286
- 1.4 **24 Hour Emergency Phone:** 1-800-424-9300 - **Medical Emergencies:** 1-866-944-8565 - **Product Information:** 1-888-574-2878 (LPI-CUST)  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to 29 CFR 1910.1200**

Eye Damage/Irritation	Category 1	H318
Skin Corrosion/Irritation	Category 2	H315
Sensitization – Skin	Category 1	H317

**2.2 Label elements**



Signal word: DANGER  
 Hazard Statement: H318 – Causes serious eye damage.  
 H315 – Causes skin irritation.  
 H317 – May cause an allergic skin reaction.

Precautionary Statement: P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P264 – Wash hands and face thoroughly after handling.  
 P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P272 – Contaminated work clothing should not be allowed out of the workplace.

(Prevention):  
 Precautionary Statement: P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 (Response): P310 – Immediately call a POISON CENTER or doctor/physician.  
 P302+P352 – IF ON SKIN: Wash with plenty of soap and water.  
 P321 – Specific treatment (see Note to Physician on the product label).  
 P332+P313 – If skin irritation occurs: Get medical advice/attention.  
 P362 – Take off contaminated clothing and wash before reuse.  
 P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statement: (General): No information.

**2.3 Other hazards**

None known



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## 3. COMPOSITION, INFORMATION ON INGREDIENTS

### 3.1 Substances

### 3.2 Mixtures

#### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
Nonylphenol ethoxylate	127087-87-0	Eye Irrit. 1; H318	13.00 – 30.00
Amines, tallow alkyl, ethoxylated	61791-26-2	Skin 2; H315	13.00 – 30.00
Proprietary component	Proprietary	Skin 1; H317	13.00 – 30.00
Proprietary component	Proprietary		7.00 – 13.00

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

**Eye contact:** 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.

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

**Ingestion:** 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.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Causes serious eye damage.

### 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

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

Take container, label or product name with you when seeking medical attention.

**NOTES TO PHYSICIAN:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIRE FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released.

### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination. Never return spills to original containers for re-use.

## 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Store in cool, dry place. Store in original container. Keep tightly closed. Do not contaminate water, food or feed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS:

#### OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (OSHA, ACGIH or AIHA) Guides

Components	Type	Value
No data available	TWA	5 mg/m <sup>3</sup>

#### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Specimen
No listings		

### 8.2 EXPOSURE CONTROLS:

#### Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

#### Individual Protection Measures:

Eye / Face Protection: Wear eye protection / face protection.

Skin Protection: Wear protective gloves. Long-sleeved shirt, long pants, and socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment with NIOSH approvals. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- 9.1 APPEARANCE:** Liquid.  
**ODOR:** Bland.  
**ODOR THRESHOLD:** No data available.  
**COLOR:** Clear.  
**pH:** 6.5  
**MELTING POINT / FREEZING POINT:** No data available.  
**BOILING POINT:** No data available.  
**FLASH POINT:** 249.8° F (121° C) / TCC  
**FLAMMABILITY (solid, gas):** No data available.  
**UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available.  
**VAPOR PRESSURE:** 0.64 mm Hg (room temperature).  
**SOLUBILITY:** No data available.  
**PARTITION CO-EFFICIENT, n-OCTANOL / WATER:** No data available.  
**AUTO-IGNITION TEMPERATURE:** No data available.  
**DECOMPOSITION TEMPERATURE:** No data available.  
**VISCOSITY, Kinematic:** 74 cSt (room temperature); Dynamic: 74 cP (room temperature).  
**SPECIFIC GRAVITY (Water = 1):** 0.98 g/ml  
**DENSITY:** 8.18 lbs./gal. / 0.98 kg/L

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.

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## 10. STABILITY AND REACTIVITY

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- 10.1 REACTIVITY**  
Stable
- 10.2 CHEMICAL STABILITY**  
Stable under normal temperature conditions
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS**  
No reactions known under normal use conditions. Will not polymerize.
- 10.4 CONDITIONS TO AVOID**  
None known.
- 10.5 INCOMPATIBLE MATERIALS**  
No data available.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS**  
Oxides of carbon and oxides of nitrogen from burning.

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## 11. TOXICOLOGICAL INFORMATION

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- 11.1 LIKELY ROUTES OF EXPOSURE**  
Eye contact.  
**LC<sub>50</sub> (rat):** > 21.3 mg/L (Nonylphenol ethoxylate)  
**LD<sub>50</sub> Oral (rat):** > 4,290 mg/kg (Nonylphenol ethoxylate); 1,200 (Amines, tallow alkyl, ethoxylated)  
**LD<sub>50</sub> Dermal (rabbit):** 2,500 mg/kg (Nonylphenol ethoxylate); >1,260 (Amines, tallow alkyl, ethoxylated)  
**Acute Toxicity Estimates:** No data available  
**Skin Irritation (rabbit):** Severely irritating.  
**Eye Irritation (rabbit):** Serious eye damage.  
**Specific Target Organ Toxicity:** Single exposure: No data available.  
**Aspiration:** No data available  
**Skin Sensitization (mouse):** Sensitizer  
**Carcinogenicity:** No data available  
**Germ Cell Mutagenicity:** No data available  
**Interactive Effects:** None known



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## 12. ECOLOGICAL INFORMATION

### 12.1 ECOTOXICITY

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

#### Ecotoxicological Data

	Species	Test Results
Amines, tallow alkyl, ethoxylated	Fish	0.63 mg/L – 96-hour LC <sub>50</sub>
	Daphnia magna	0.00107 mg/L – 48-hour EC <sub>50</sub>
Nonylphenol ethoxylate	Fish	103 mg/L – 96-hpur LC <sub>50</sub>
	Daphnia magna	0.7 mg/L – 48-hour LC <sub>50</sub>

Drift or runoff may adversely affect non-target plants.  
Do not apply directly to water.  
Do not contaminate water when disposing of equipment wash water.  
Do not apply when weather conditions favor drift from target area.

### 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

### 12.4 MOBILITY IN SOIL

No data available.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

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

### 14.1 LAND TRANSPORT

DOT Shipping Description NON-BULK: NOT REGULATED.

DOT Shipping Description BULK: UN 3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINES, TALLOW ALKYL, ETHOXYLATED), 8, III, MARINE POLLUTANT ERG GUIDE 153

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS 60)

## 15. REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

#### NFPA & HMIS Hazard Ratings:

#### NFPA

1	Health	0	Least
0	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

#### HMIS

1	Health
0	Flammability
0	Reactivity
B	PPE



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**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>N</u>	Reactive	<u>N</u>		

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 applicable

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**16. OTHER INFORMATION**

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**SDS STATUS:** Sections 1 and 2 revised.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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