

**SAFETY DATA SHEET**

SDS NUMBER: 100004414-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 03/31/15

**CHAOS**  
SUPERSEDES: NEW**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:** CHAOS**1.2 RECOMMENDED USE:** NONIONIC SURFACTANT – SPREADER - ACTIVATOR**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**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 Irritation

Category 1

H318

**2.2 Label elements****Signal word:** DANGER**Hazard Statement:** H318 – Causes serious eye damage.**Precautionary****Statement:**

P261 – Do not breathe dust / fume/ gas / mist / vapors / spray.

P264 - Wash skin thoroughly after handling.

**(Prevention):**

P270 – Do not eat, drink, or smoke when using this product.

P280 – Wear protective gloves / protective clothing / eye protection / face protection.

P103 – Read label before use.

**Precautionary****Statement:****(Response):**

P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.

P303+P352 - IF ON SKIN: Wash with soap and water.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P310 – Immediately call a POISON CENTER or doctor / physician.

P337+P313 – If eye irritation persists: Get medical advice / attention.

P362 – Take off contaminated clothing and wash before reuse.

**Precautionary****Statement:****(Storage):**

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

**2.3 Other hazards**

None known

**KEEP OUT OF REACH OF CHILDREN –**

Appearance and odor: Clear, pale yellow liquid with mild odor.

**DANGER****Potential Health effects****Routes of exposure**

Eye contact, skin contact, inhalation. Avoid breathing spray mist.

**Eyes**

Causes serious eye damage.

**Skin**

May be harmful if in contact with skin.

**Inhalation**

May be irritating to respiratory system.

**Ingestion**

May be irritating to mouth, throat, and stomach.

**Target organs**

Eyes. Skin. Inhalation.

**Signs and symptoms**

May be harmful if absorbed through skin.

**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.

**SAFETY DATA SHEET**

SDS NUMBER: 1000004414-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 03/31/15

**CHAOS**

SUPERSEDES: NEW

---

**3. COMPOSITION, INFORMATION ON INGREDIENTS**

---

**3.1 Substances****3.2 Mixtures****Classification according to 29 CFR 1910.1200**

Chemical Name:	CAS No.	Classification	Concentration [%]
Proprietary blend of Nonionic surfactants, tall oil fatty acids, and formulation aids.	Mixture	Eye Dam. 1; H318	100.00

---

**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, preferably 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: Inhalation: May cause respiratory irritation.  
Eyes: Causes serious eye damage.  
Skin: Causes severe skin burns and 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:** Probable mucosal damage may contraindicate the use of gastric lavage. 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.

# SAFETY DATA SHEET

SDS NUMBER: 1000004414-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 03/31/15

**CHAOS**  
SUPERSEDES: NEW

---

## 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 reuse empty container. Product will become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. 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 (ACGIH) TLVs

Components	Type	Value
No listings	TWA	

##### U.S. Workplace Exposure Level (OSHA) PELs

Components	Type	Value
No listings		

#### 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: Goggles or shielded safety glasses are recommended.

Skin Protection: Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. 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.

# SAFETY DATA SHEET

SDS NUMBER: 1000004414-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 03/31/15

**CHAOS**  
SUPERSEDES: NEW

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

9.1 APPEARANCE :	Liquid
ODOR:	Mild.
ODOR THRESHOLD:	No data available.
COLOR:	Clear, pale yellow.
pH:	No data available
MELTING POINT / FREEZING POINT:	No data available
BOILING POINT:	No data available
FLASH POINT:	>200°F (93.3°C) / SCC
FLAMMABILITY (solid, gas):	No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOR PRESSURE:	No data available.
SOLUBILITY:	Soluble
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY, dynamic:	No data available
SPECIFIC GRAVITY (Water = 1):	0.981 – 0.993 g/ml
BULK DENSITY:	8.18 – 8.28 lbs./gal / 0.98 – 0.99 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.

---

## 10. STABILITY AND REACTIVITY

---

### 10.1 REACTIVITY

Stable

### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not polymerize.

### 10.4 CONDITIONS TO AVOID

Strong oxidizing agents.

### 10.5 INCOMPATIBLE MATERIALS

No data available.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available.

---

## 11 TOXICOLOGICAL INFORMATION

---

### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact.

**LC<sub>50</sub> (rat):** No data available

**LD<sub>50</sub> Oral (rat):** No data available

**LD<sub>50</sub> Dermal (rat):** No data available

**Acute Toxicity Estimates:** No data available

**Skin Irritation (rabbit):** Slight irritant.

**Eye Irritation (rabbit):** Extremely irritating to the eye

**Specific Target Organ Toxicity:** Single exposure: No data available.

**Aspiration:** No data available

**Skin Sensitization (guinea pig):** Not a sensitizer

**Carcinogenicity:** No data available

**Germ Cell Mutagenicity:** No data available

**Interactive Effects:** None known

**SAFETY DATA SHEET**

SDS NUMBER: 100004414-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 03/31/15

**CHAOS**

SUPERSEDES: NEW

**12 ECOLOGICAL INFORMATION****12.3 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. This product is not intended for use in aquatic settings.

**Ecotoxicological Data**

	Species	Test Results
No data available		

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****14.3 LAND TRANSPORT**

DOT Shipping Description: NOT REGULATED

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

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

## HMIS

3	Health
0	Flammability
0	Reactivity
B	PPE

**SARA Hazard Notification/Reporting****SARA Title III Hazard Category:**Immediate Y  
Delayed NFire N  
Reactive NSudden Release of Pressure N

Reportable Quantity (RQ) under U.S. CERCLA: No listings

SARA, Title III, Section 313: No listings

RCRA Waste Code: No listings

CA Proposition 65: Not applicable

# SAFETY DATA SHEET

SDS NUMBER: 1000004414-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 03/31/15

**CHAOS**

SUPERSEDES: NEW

---

## 16 OTHER INFORMATION

---

**SDS STATUS:** New.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.