**SURPHTAC<sup>TM</sup>** 

## MATERIAL SAFETY DATA SHEET

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. **24-Hour Emergency Phone**: 1-800-424-9300

P.O. Box 1286 • Greeley, CO 80632-1286 **Medical Emergencies**: 1-866-944-8565

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

PRODUCT NAME: SURPHTAC<sup>™</sup> ADJUVANT
CHEMICAL NAME: Monocarbamide dihydrogensulfate
CHEMICAL FAMILY: Spray Adjuvant-Surfactant

**CA REG**: 34704-50086

MSDS Number: 0050086-12-LPI MSDS Revisions: New Date of Issue: 04/24/12 Supersedes: New

# 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – DANGER (PELIGRO).** Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. May cause skin irritation. Avoid contact with spray. Avoid breathing spray mist. Wear suitable protective equipment to protect skin and eyes. For skin, wear coveralls over long-sleeved shirt and long pants, sock, chemical resistant footwear and chemical resistant gloves. For eyes, wear appropriate protective eyewear such as goggles, face shield or safety glasses. Wash with soap and water after contact with skin.

This product is a clear green to blue-green aqueous solution with slight ammonia odor. Primary routes of entry are inhalation, ingestion and skin contact.

#### 3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Octylphenoxypolyethoxyethanol	33.00	9036-19-5	not established
Monocarbamide dihydrogensulfate	20.40	21351-39-3	not established
Other ingredients	46.60		

#### 4. FIRST AID MEASURES

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. Call a Poison Control Center or doctor for treatment advice.

If on skin: Take of contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. If irritation persists, seek

medical attention.

If swallowed: Call a Poison Control Center 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 to an unconscious person.

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

#### 5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Does not flash FLAMMABLE LIMITS (LFL & UFL): Not applicable

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of nitrogen and oxides of sulfur.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-

contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product will not burn but will produce hydrogen gas if product comes into contact with aluminum, tin,

lead or zinc.

# 6. ACCIDENTAL RELEASE MEASURES

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

Avoid breathing vapors and contact with liquid. Collect as much liquid as possible in a clean container for reuse or absorb and sweep up immediately and transfer to suitable containers for disposal. Flush spill area with water after clean up. 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:** Follow PPE recommendations in Section 8 and on product label. Use with adequate ventilation.

STORAGE: Store in a cool, dry place. Store in original container. Keep container tightly closed in storage. Do not store at

temperatures above 140°F. Do not contaminate water, food or feed by storage or disposal.

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: RESPIRATORY PROTECTION:

Work in well-ventilated area, local exhaust may be required if working in confined space. Not normally required, if vapors exceed acceptable levels, wear a NIOSH/ MSHA approved respirator.

EYE PROTECTION:

SKIN PROTECTION:

Wear appropriate protective eyewear such as goggles, face shield or safety glasses.

Wear coveralls over long-sleeved shirt and long pants, sock, chemical resistant footwear and chemical resistant

gloves.

**OSHA PEL 8 hr TWA** 

ACGIH TLV-TWA

For product

none established

none established

# 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear green to blue-green aqueous solution with slight ammonia odor

SOLUBILITY: Complete

SPECIFIC GRAVITY (Water = 1): 1.096g/ml BULK DENSITY: 9.15 lbs/gal pH: 0.5

**VAPOR PRESSURE:** Not established **BOILING POINT:** 200°F/93.3°C (Decomposes at 230°F)

PERCENT VOLATILE (by volume): Negligible EVAPORATION RATE: <1

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: Product concentrate is corrosive to nylon, aluminum, leather and copper alloy, such as brass.

**INCOMPATIBILITY:** Do not allow product to come into contact with undiluted chlorate desiccant.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, oxides of sulfur, and other unknown hazardous materials may be formed in a fire

situation.

HAZARDOUS POLYMERIZATION: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat): not established

Eye Irritation (rabbit): May cause irritation

Inhalation LC50 (rat): May cause respiratory tract irritation.

Acute Dermal LD50 (rabbit): not established

Skin Irritation (rabbit): May cause irritation

Skin Sensitization (guinea pig): not established

Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

# 12. ECOLOGICAL INFORMATION

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by the cleaning of equipment or disposal of wash waters. Do not apply in any manner not specified on the product label.

# 13. DISPOSAL CONSIDERATIONS

Do not reuse containers. Triple rinse (or equivalent) and add rinsate to spray application equipment. Empty packaging should be offered for recycling, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed storage or disposal.

# 14. TRANSPORT INFORMATION

**DOT Shipping Description:** DOT CORROSIVE TO MILD STEEL. NOT REGULATED WHEN TRANSPORTED BY MOTOR VEHICLE OR RAILCAR IN PACKAGING THAT WILL NOT REACT WITH OR BE DEGRADED BY THIS MATERIAL - 49 CFR 173.154 (d).

**U.S. Surface Freight Classification:** ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60) Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15.	REGUL	ATORY	<b>INFORM</b>	ATION
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NFPA & HMIS Hazard Ratings: **NFPA** 

**HMIS** Health 0 3 Least

Health Flammability Slight Flammability Reactivity Instability 2 Moderate 1 3 В PPE High

Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: **Immediate** Sudden Release of Pressure N\_\_ Delayed Reactive

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

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SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not listed

#### 16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs **REVIEWED BY:** Environmental Health and Safety

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