

MATERIAL SAFETY DATA SHEET

FIRST CHOICE® SURPHTAC™ ADJUVANT

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: 1-866-944-8565

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

PRODUCT NAME: FIRST CHOICE® SURPHTAC™ ADJUVANT

CHEMICAL NAME: Monocarbamide dihydrogensulfate

CHEMICAL FAMILY: Spray Adjuvant-Surfactant

CA REG: 34704-50074

MSDS Number: 0050074-12-LPI

MSDS Revisions: Section 12

Date of Issue: 02/17/12

Supersedes: 09/10/10

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

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
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 (CO₂), 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well-ventilated area, local exhaust may be required if working in confined space.
RESPIRATORY PROTECTION: Not normally required, if vapors exceed acceptable levels, wear a NIOSH/ MSHA approved respirator.
EYE PROTECTION: Wear appropriate protective eyewear such as goggles, face shield or safety glasses.
SKIN PROTECTION: Wear coveralls over long-sleeved shirt and long pants, sock, chemical resistant footwear and chemical resistant gloves.

For product	OSHA PEL 8 hr TWA none established	ACGIH TLV-TWA none established
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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.
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	Acute Dermal LD₅₀ (rabbit): not established
Eye Irritation (rabbit): May cause irritation	Skin Irritation (rabbit): May cause irritation
Inhalation LC₅₀ (rat): May cause respiratory tract irritation.	Skin Sensitization (guinea pig): not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH	

12. ECOLOGICAL INFORMATION

Do not contaminate water by the cleaning of equipment or disposal of wastes. Do not use product 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. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA				HMIS	
3	Health	0	Least	3	Health
1	Flammability	1	Slight	1	Flammability
1	Instability	2	Moderate	1	Reactivity
		3	High	H	PPE
		4	Severe		

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire Y 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 INFORMATION

MSDS STATUS: Section 12 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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