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:

MSDS Number: 005007	76-12-LPI MSDS Revi	sions: New	Date of Issue: 02/02/12	Supersedes: New
CHEMICAL FAMILY: CA REG:	Adjuvant - Nutrient 34704-50076			
PRODUCT NAME: CHEMICAL NAME:	FIRST CHOICE® FOLIAR NU Mixture of surfactants and nutrie			
LOVELAND PRODUCTS, INC. P.O. Box 1286 • Greeley, CO 80632-1286		0	cy Phone: 1-800-424-9300 ergencies: 1-866-944-8565 se Center: 1-800-424-8802	

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 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 liquid with musty 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)
Total Nitrogen (N)	10.00	Mixture	not listed
(from Urea)		57-13-6	10 mg/m ³ *
Available Phosphate (P_2O_5)	12.00	Mixture	not listed
(from Phosphoric Acid)		7664-38-2	1 mg/m ³
Sulfur (S)	1.50	Mixture	not listed
(from Manganese Sulfate and Zinc Sul	fate)	7785-87-7; 7733-02-0	
Manganese (Mn)	, 1.00	Mixture	not listed
(from Manganese Sulfate)		7785-87-7	not listed
Žinc (Zn)	2.00	Mixture	not listed
(from Zinc Sulfate)		7733-02-0	not listed
Other Ingredients	73.50		

4. FIRST AID MEASURES

 If on skin or clothing:
 Take of contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

 If in eyes:
 Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contacted lenses, if present, after the first 5 minutes, then continue rinsing eye.

 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.

 If inhaled:
 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by

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.

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

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): FLAMMABLE LIMITS (LFL & UFL): EXTINGUISHING MEDIA: HAZARDOUS COMBUSTION PRODUCTS: SPECIAL FIRE FIGHTING PROCEDURES:	Not flammable. Not applicable Dry chemical, carbon dioxide (CO ₂), foam, water spray or fog. May include but are not limited to oxides of carbon. 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:	contained breathing apparatus and full protective gear. Evacuate citizens downwind from fire.

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.

HANDLING AND STORAGE 7

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HANDLING:
STORAGE:
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Follow PPE recommendations in Section 8 and on product label. Use with adequate ventilation. Store in a cool, dry place. Store in original container. Keep container tightly closed. Do not store reuse empty container. Do not contaminate water, food or feed by storage or disposal.

EXPOSURE CONTROLS / PERSONAL PROTECTION 8.

RESPIRATORY PROTECTION: EYE 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. Safety glasses if necessary.
SKIN PROTECTION:	Wear long-sleeved shirt and long pants, socks, shoes and chemical resistant-gloves.

Phosphoric Acid

OSHA PEL 8 hr TWA 1 mg/m^3

ACGIH TLV-TWA 1 mg/m³

PHYSICAL AND CHEMICAL PROPERTIES 9.

APPEARANCE AND ODOR: Amber liquid with musty odor SPECIFIC GRAVITY (Water = 1): 1.268 g/ml VAPOR PRESSURE: Not established PERCENT VOLATILE (by volume): Negligible These physical data are typical values based on material tested but may vary from sample to sample. Note:

BULK DENSITY: 10.58 lbs/gal. BOILING POINT: Not established **EVAPORATION RATE:** Negligible **SOLUBILITY: Emulsifies** pH: 1.70 (neat)

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: Strong oxidizers and high temperatures. INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon 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): Eye irritant Inhalation LC₅₀ (rat): Not established Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH Acute Dermal LD₅₀ (rat): Not established Skin Irritation (rabbit): Not established Skin Sensitization (guinea pig): not established

12. **ECOLOGICAL INFORMATION**

This product is not for aquatic use. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

13. **DISPOSAL CONSIDERATIONS**

Wastes may be disposed of on-site or at an approved waste disposal facility. Triple rinse (or equivalent) and add rinse water to spray tank. Offer container for recycling or dispose of container in a sanitary landfill, or by other procedures 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 www.acrecycle.org. Do not contaminate water, food or feed storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: CORROSIVE LIQUIDS, N.O.S. (PHOSPHORIC ACID), 8, UN 1760, III, ERG GUIDE 154. **U.S. Surface Freight Classification:** FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70) 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
	1 Health 0 Flammability 0 Instability	0 Least 1 Slight 2 Moderate 3 High 4 Severe	1 Health 0 Flammability 0 Reactivity B PPE
SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate <u>Y</u> Delayed <u>N</u>		N Sudden Release of Pressure <u>N</u>

Reportable Quantity (RQ) under U.S. CERCLA: Phosphoric Acid (CAS: 7664-38-2) 5000 lbs.; Zinc Sulfate (CAS: 7733-02-0) 1000 lbs. SARA, Title III, Section 313: Zinc Compounds

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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