

### NUTRISYNC® ESSENTIAL DATE OF ISSUE: 07/20/17

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**

**PRODUCT IDENTIFIER:** 1.1 TRADE NAME:

### **NUTRISYNC® ESSENTIAL 10-7-4** FOLIAR NUTRIENT

- 1.2 RECOMMENDED USE:
- 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

Category 4

H302

#### HAZARDS IDENTIFICATION 2.

### 2.1 Classification of the substance or mixture

### 2.2 Classification according to 29 CFR 1910.1200

Acute Toxicity - Oral



WARNING Signal word: Hazard Statement: H302 - Harmful if swallowed. Precautionary Statement: P264 – Wash hands and face thoroughly after handling. (Prevention): P270 - Do not eat, drink or smoke when using this product. Precautionary P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Statement: (Response): P330 - Rinse mouth. Precautionary Statement: (Storage): Not applicable or required. Precautionary Statement: (Disposal): P501 - Dispose of contents/container in accordance with local, state and federal regulations.

### 2.3 Other hazards None known

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SDS NUMBER: 1000798265-17-LPI

### SAFETY DATA SHEET -17-LPI SDS REVISIONS: NEW

### 3 COMPOSITION, INFORMATION ON INGREDIENTS

### 3.3 Substances

Classification according to 29 CFR 1910.1200

3.2 Mixtures

Chemical Name: CAS No.	Concentration [%]
Urea 57-13-6	15 – 20
Ammonium Nitrate 6484-52-2	Trace
Anhydrous Ammonia 7664-41-7	Trace
Potassium Acetate 127-08-2	15 – 18
Ammonium Polyphosphate 68333-79-9	20 – 22
Copper EDTA 67989-88-2	0.6 - 0.8
Iron HEDTA 17084-02-5	1.9 – 2.0
Manganese EDTA 68015-77-0	0.7 – 0.9
Zinc EDTA 14025-21-9	0.49 – 0.52
Water 7732-18-5	35 – 38

### 4 FIRST AID MEASURES

### 4.3 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact: Ingestion:	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. 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.
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.
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.

### **4.4 Most Important Symptoms and Effects, Acute and Delayed** Symptoms: Harmful if swallowed.

## 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

### 5.3 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, water spray or fog.

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

Specific Hazards During Firefighting:During a fire, oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen may be produced.5.5SPECIAL 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.



	PERSONAL PRECAUTIONS, PROTE Personal Precautions:	ECTIVE EQUIPMENT AND EMERGENCY PROCEDURES Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation Wear suitable protective clothing.
6.2 E	ENVIRONMENTAL PRECAUTIONS	
E	Invironmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to ente drains, sewers, or watercourses.
6.3 N	<b>METHODS AND MATERIALS FOR C</b>	ONTAINMENT AND CLEAN-UP
ſ	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.

## 7.3 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of vapors / spray and contact with eyes, skin and clothing. Do not breathe mist 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.

## 7.4 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store above 32°F (0°C). Do not contaminate water, food, or feed by storage or disposal.

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION** 8

## 8.3 CONTROL PARAMETERS

AIHA WEELs Components	Туре	Value	
Urea (CAS: 57-13-6)	TWA	10 mg/m <sup>3</sup>	
ACGIH® TLVs®	IWA	To mg/m	
Ammonia (CAS: 7664-41-7)	TWA	17 mg/m <sup>3</sup>	
ological limit values			

ACGIH Biological Exposure Indices Specimen Components Value

No listings

## 8.4 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 Me	easures:
Eye / Face Protection:	Goggles or shielded safety glasses are recommended.
Skin Protection:	Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove
	contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware
	that the liquid may penetrate the gloves. Frequent change is advisable.
Respiratory Protection:	In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. In the U.S.A., 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.



## 9 PHYSICAL AND CHEMICAL PROPERTIES

9.3	APPEARANCE :	Clear liquid
	ODOR:	Mild.
	ODOR THRESHOLD:	0.1 ppm.
	COLOR:	Green.
	pH:	No data available.
	MELTING POINT / FREEZING	G POINT: No data available
	BOILING POINT:	212 °F / 100 °C
	FLASH POINT:	Does not flash
	FLAMMABILILITY (solid, gas):	Does not support combustion.
	UPPER / LOWER FLAMMABI	LITY OR EXPLOSIVE LIMITS: Not applicable.
	VAPOR PRESSURE:	No data available.
	SOLUBILITY:	Soluble
	PARTITION CO-EFFICIENT, r	n-OCTANOL / WATER: No data.
	AUTO-IGNITION TEMPERATI	JRE: No data available.
	DECOMPOSITION TEMPERA	TURE: Not determined
	VISCOSITY:	Not determined
	SPECIFIC GRAVITY (Water =	1): 1.199 g/ml
	DENSITY:	10.01 lbs/gal. / 1.2 kg/L
Note:	These physical data are ty	pical 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

### 10.3 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**
- Excessive heat.
- **10.5 INCOMPATIBILE MATERIALS**

### Strong oxidizers. 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to: oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen.

### 11 TOXICOLOGICAL INFORMATION

### **11.3 LIKELY ROUTES OF EXPOSURE**

Ingestion. Skin contact, eye contact. LD<sub>50</sub> Oral (rat): 1,480 – 1,770 mg/kg (Ammonium Nitrate) (TFI Product Testing Results, OECD Guideline 425) LD<sub>50</sub> Dermal (rat): >5,000 mg/kg (Ammonium Nitrate) (TFI Product Testing Results, OECD Guideline 402) LC<sub>50</sub> (rat): >88,800 mg/L (Ammonium Nitrate) 4HR Acute Toxicity Estimates: No data available Skin Irritation (rabbit): No data available Eye Irritation (rabbit): No data available 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



#### 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.

SDS REVISIONS: NEW

# Ecotoxicological Data

Components	Species	Test Results	
Ammonium Nitrate (CAS: 6484-52-2)	Aquatic organisms Fish	96hr LC <sub>50</sub> 95 – 102 mg/L	
	Daphnia	24hr EC <sub>50</sub> 124.9 mg/L	

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**

The product is not readily biodegradable Biodegradability:

**12.3 BIOACCUMULATIVE POTENTIAL** Bioaccumulation: No data available.

### **12.4 MOBILITY IN SOIL**

This product is water soluble and may disperse in soil.

### **12.5 OTHER ADVERSE EFFECTS**

No data available. Assessment:

#### **DISPOSAL CONSIDERATIONS** 13

### **13.1 WASTE TREATMENT METHODS**

Do not reuse container. Completely empty container into application equipment. Triple rinse (or equivalent), adding rinsate 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/. or by reconditioning, 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 by storage or disposal.

#### 14 TRANSPORT INFORMATION

### 14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6; CLASS 70)

#### 15 **REGULATORY INFORMATION**

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

### NFPA & HMIS Hazard Ratings:

NFPA

1

0

0

- Health Flammability
- Slight 1 Instability 2
  - Moderate 3 High

0

4 Severe

Least

- HMIS
- 1 Health
- Flammability 0
- 0 Reactivity
- PPE В



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SARA Hazard Notification/Reporting SARA Title III Hazard Category:

Immediate Delayed

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Reactive

Sudden Release of Pressure N

Reportable Quantity (RQ) under U.S. CERCLA: Ammonia (CAS: 7664-41-7) 100 lbs. SARA, Title III, Section 313: Ammonia (CAS: 7664-41-7); 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.

Fire

16 **OTHER INFORMATION** 

SDS STATUS: New. **PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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