$\textbf{IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-1000 and 1-1000 and$ 

561-8273 or CHEMTREC 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

#### **MANUFACTURED FOR:**

LOVELAND PRODUCTS CANADA, INC.

24-Hour Emergency Phone: 1-800-561-8273
789 Donnybrook Drive • Dorchester, Ontario NOL 1G5

Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

CHEMICAL IDENTITY: Urea, Ammonia, Phosphoric Acid, Potassium Hydroxide, Copper EDTA, Iron HOEDTA, Manganese EDTA, and Zinc EDTA

PRODUCT USE: Liquid Plant Nutrient with Micronutrients

PCP REG. NO.: Not applicable

SDS Number: NGWE-15-LPI SDS Revisions: Section 1 Date of Issue: 04/08/15 Supersedes: 09/17/12

#### 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION -** Harmful if absorbed through the skin. May cause eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing vapours. Use with adequate ventilation. Eye protection and gloves are suggested when handling undiluted product. Wash thoroughly after handling. Contents may be under pressure. Use caution when opening. This liquid micronutrient solution is derived from Urea, Ammonia, Phosphoric Acid, Potassium Hydroxide, Copper EDTA\*, Iron HEDTA+, Manganese EDTA\*, and Zinc EDTA\*.

This product is a clear colourless to green-coloured solution with slight ammonia odour. Primary routes of entry are eye contact and skin contact.

#### 3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Total Nitrogen (N)	16.00	Mixture	none established
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )	8.00	7664-38-2	1 mg/m <sup>3</sup>
Soluble Potash (K <sub>2</sub> O)	3.00	1310-58-3	2 mg/m³ (C)
Copper (Cu)	0.05	67989-88-2	not listed
Iron (Fe)	0.10	Mixture	not listed
Manganese (Mn)	0.05	68015-77-0	not listed
Zinc (Zn)	0.05	67859-51-2	not listed

## 4. FIRST AID MEASURES

If on skin or clothing:

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an

unconscious person.

If in eyes: Hold eyes 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 centre or doctor for treatment advice.

If inhaled: 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 centre or doctor for further treatment advice.

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273. Have the product label or container with you when calling a poison control centre or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

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

**EXTINGUISHING MEDIA:** Considered non-combustible, use medium appropriate to surrounding fire. 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 carbon, ammonia, and oxides of nitrogen.

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: Containers may burst due to pressure build-up of ammonia.

## 6. ACCIDENTAL RELEASE MEASURES

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

Ventilate area. Contain spill, absorb liquid with clay or other absorbent material. Sweep up material and place in container for possible land application according to label use or for proper disposal. 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

HANDLING: Open the container carefully. Contents may be under pressure. Eye protection and gloves are suggested when handling

undiluted product. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash

thoroughly and change into clean clothing.

STORAGE: Keep container tightly closed when not in use. Store in original container only. Store in a dry place above 20°F / 6.7°C.

Avoid freezing. If product freezes, allow it to warm and then mix vigorously before use. Do not use food or drink containers for

mixing or storage. Do not contaminate water, food, or feed by storage or disposal.

## **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required. If ammonia odour is too strong use an approved respirator for anhydrous ammonia.

**RESPIRATORY PROTECTION:** Not normally required, if vapours or mists exceed acceptable levels, wear a NIOSH/MSHA approved respirator for

anhydrous ammonia.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear rubber or chemical-resistant gloves. **SKIN PROTECTION:** 

> **OSHA PEL 8 hr TWA ACGIH TLV-TWA** 1 mg/m<sup>3</sup> 1 mg/m<sup>3</sup>

Phosphoric Acid Potassium Hydroxide not listed 2 mg/m<sup>3</sup> (Celing)

#### PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR: Clear colourless to green-coloured solution with slight ammonia odour. **SOLUBILITY: Soluble** 

**BULK DENSITY:** 1.2 kg/L SPECIFIC GRAVITY (Water = 1): 1.20 g/ml **pH**: 7.6

VAPOUR PRESSURE: Not established **BOILING POINT:** 212°F/100°C

PERCENT VOLATILE (by volume): Not applicable EVAPORATION RATE: (Butyl Acetate = 1): Not established

These physical data are typical values based on material tested but may vary from sample to sample. Note:

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: Excessive heat and cold

**INCOMPATIBILITY:** Strong oxidizers.

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

HAZARDOUS POLYMERIZATION: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

Acute Oral LD<sub>50</sub> (male rat): Not established Acute Dermal LD<sub>50</sub> (rabbit): Not established Eye Irritation (rabbit): Causes slight irritation Skin Irritation (rabbit): May cause slight irritation Inhalation LC<sub>50</sub> (female rat): Not established. Skin Sensitization (Guinea Pig): Not established

Carcinogenic Potential: Not listed in OSHA, NTP, IARC, or ACGIH.

#### **ECOLOGICAL INFORMATION** 12.

Material may be toxic to fish and other aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on the product labeling.

#### **DISPOSAL CONSIDERATIONS**

Do not reuse containers for any purpose. Refillable Container: For disposal, the container may be returned to the point of purchase (dealer/distributor). It must be refilled by the dealer/distributor with the same product. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

## 14. TRANSPORT INFORMATION

DOT/TDG Shipping Description: NOT REGULATED

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

IMDG Shipping Description: NOT REGULATED

Consult appropriate ICAO/IATA regulations for shipment requirements in the Air shipping mode.

#### 15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings: NFPA

1 Health 0 Flammability 0 Instability

0 Least1 Slight2 Moderate

1 Health
0 Flammability
0 Reactivity
G PPE

**HMIS** 

3 High4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immed

Immediate Delayed \_

Fire N Reactive N

Sudden Release of Pressure

\_<u>N\_\_</u>

Reportable Quantity (RQ) under U.S. CERCLA: Phosphoric Acid (CAS: 7664-38-2) 5000 lbs.; Potassium Hydroxide (CAS: 1310-58-3) 1000 lbs.

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

# 16. OTHER INFORMATION

SDS STATUS: Section 1 revised

PREPARED BY: Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

®Nortrace is a registered trademark of Loveland Products, Inc.

®Green With Envy is a registered trademark of United Agri Products Canada, Inc.

\*Ethylenediaminetetraacetic acid

+Hydroxyethylethylenediaminetriacetic acid

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