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: CHEMICAL NAME: CHEMICAL FAMILY: EPA REG. NO.: SDS Number: 100017	SIGNATURE® DRACO® 5-0-0 Plant Nutrient Liquid blended nutrient not applicable 73917-13-LPI SDS Revisions: Section 1	Date of Issue: 03/27/14	Supersedes: 10/02/13

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In case of contact, flush with water. Get medical attention for eyes. This blended liquid plant nutrient is a mixture of Calcium Nitrate, Calcium Acetate, Ecklonia Maxima Kelp Extract, and Brewer's Yeast. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a dark amber-colored liquid with sweet odor. Primary routes of entry are Inhalation, eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Total Nitrogen (N) Calcium (Ca) (from Calcium Nitrate) (from Calcium Acetate) Other ingredients	5.00 8.00 87.00	Mixture Mixture 10124-37-5 7440-70-2	not established not established not established not established

4. FIRST AID MEASURES

If in eyes:	Hold eye open and rinse slowly and gently with water for 15 to 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 or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.	
If swallowed:	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 the poison control center or doctor. Do not give anything by mouth 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.	
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: UNUSUAL FIRE AND EXPLOSION HAZARDS:	Not established. Not applicable Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog. May include but are not limited to oxides of carbon and acetone. Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self- contained breathing apparatus and full protective gear. When heated above 320°F (160°C) in enclosed spaces, highly flammable/explosive acetone may be generated.
	с С

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing mists. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or for 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.

7. HANDLING AND STORAGE

```
HANDLING:
Avoid breathing fertilizer mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after using this product and before eating, drinking, chewing gum, using tobacco or using the toilet.

STORAGE:
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.

NOTE: some swelling of packaging may be observed while in storage – this action is from fermentation of sugar in the product mixture and will not affect product performance. Do not contaminate water, food, or feed by storage or disposal.
```

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: RESPIRATORY PROTECTION:	Not normally required. Not normally required, if vapors or mists exceed accepta	ble levels, wear a MSHA/NIOSH approved respirator.
EYE PROTECTION: SKIN PROTECTION:	Chemical goggles or shielded safety glasses. Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical- resistant gloves.	
	OSHA PEL 8 hr TWA	ACGIH TLV-TWA

No listings

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark amber-colored liquid with sweet odor **SOLUBILITY:** Appreciable SPECIFIC GRAVITY (Water = 1): 1.389 g/ml BULK DENSITY: 11.60 lbs/gal. pH: 1.5 - 2.0 VAPOR PRESSURE: Not established BOILING POINT: Not established PERCENT VOLATILE (by volume): Not applicable EVAPORATION RATE: Not established 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: None known. **INCOMPATIBILITY:** None known. HAZARDOUS DECOMPOSITION PRODUCTS: May decompose to release oxides of carbon and acetone. HAZARDOUS POLYMERIZATION: Will not occur. 11. TOXICOLOGICAL INFORMATION Acute Oral LD₅₀ (rat): >5000 mg/kg Acute Dermal LD₅₀ (rat): >2000 mg/kg Eye Irritation (rabbit): Not established Skin Irritation (rabbit): Not established

12. ECOLOGICAL INFORMATION

Inhalation LC₅₀ (rat): Not established.

Drift or runoff may adversely affect non-target plants. 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.

Skin Sensitization (guinea pig): Not established

13. DISPOSAL CONSIDERATIONS

Do not reuse container. Rinse container thoroughly, adding rinsate to mixing tank. Then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.

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

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 5; CLASS 70)

15. REGULATORY INFORMATION NFPA HMIS NFPA & HMIS Hazard Ratings: 1 Health 0 Least Health 1 Flammability 0 1 Slight 0 Flammability 2 Moderate Reactivity 0 Instability 0 3 В PPE High 4 Severe SARA Hazard Notification/Reporting SARA Title III Hazard Category: Immediate Fire Sudden Release of Pressure ___N___ Ν Reactive Delayed Ν 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 applicable

16. OTHER INFORMATION

MSDS STATUS: Section 1 revised PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

®Signature and Draco are registered trademarks of Loveland Products, Inc.

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.