



# SAFETY DATA SHEET

SDS NUMBER: 1000353247-17-LPI

SDS REVISIONS: SEC. 9

DATE OF ISSUE: 05/04/17

**BEAN CHASER®**

SUPERSEDES: 09/20/15

**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

### 1.1 PRODUCT IDENTIFIER:

TRADE NAME: **BEAN CHASER® 10-0-0**

1.2 RECOMMENDED USE: LIQUID FERTILIZER FOR USE ON BEANS

### 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

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

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to 29 CFR 1910.1200

Acute Toxicity – Oral	Category 4	H302
Skin Corrosion/Irritation	Category 2	H315
Eye Damage/Irritation	Category 2A	H319
Acute Toxicity – Inhalation	Category 4	H332

### 2.2 Label elements



Signal word:

WARNING

Hazard Statement:

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

Precautionary

Statement:

P264 – Wash hands and face thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

(Prevention):

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 – Use only outdoors or in a well-ventilated area.

Precautionary

Statement:

(Response):

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 – Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321 – Specific treatment (see First Aid information on the product label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362 – Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

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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### 3. COMPOSITION, INFORMATION ON INGREDIENTS

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#### 3.1 Substances

#### 3.2 Mixtures

##### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Concentration [%]
Calcium Nitrate	10124-37-5	Proprietary
Nitric acid ammonium salt	6484-52-2	Proprietary
Calcium Ammonium Nitrate	15245-12-2	Proprietary
Magnesium Nitrate	10377-60-3	Proprietary
Urea	57-13-6	Proprietary
Manganese EDTA	15375-84-5	Proprietary
Iron HEDTA	17084-02-5	Proprietary
Copper EDTA	51395-10-9	Proprietary
Zinc EDTA	14025-21-9	Proprietary
Boric Acid	10043-35-3	Proprietary
Sodium Molybdate	7631-95-0	Proprietary
Water	7732-18-5	Proprietary

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### 4. FIRST AID MEASURES

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#### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

- Eye contact:** 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.
- 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.
- Ingestion:** 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.
- Inhalation:** 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 treatment advice.

#### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Inhalation: May cause respiratory irritation.  
Eyes: Causes serious eye irritation.  
Skin: Causes skin irritation.

#### 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:** Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.



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**5. FIRE FIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA:**

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released, including oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen.

**5.3 SPECIAL 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.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP**

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. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists 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.

**7.2 CONDITIONS FOR SAFE STORAGE:**

Requirements for Storage Areas and Containers: Store in original containers only. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. Store in a cool, dry, well-ventilated place, preferably in a locked storage area away from children, feed and food products, and seed. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:**

**OCCUPATIONAL EXPOSURE LIMITS**

**U.S. Workplace Exposure Level (ACGIH) TLVs**

Components	Type	Value
Ammonia	TWA	17 mg/m <sup>3</sup>
	STEL/CEIL (C)	24 mg/m <sup>3</sup>
Proprietary component	TWA	25 mg/m <sup>3</sup>
	STEL/CEIL (C)	37 mg/m <sup>3</sup>
Zinc Oxide	TWA	2 mg/m <sup>3</sup> R (Measured as respirable fraction of the aerosol.)

**U.S. Workplace Exposure Level (OSHA) PELs**

Components	Type	Value
Ammonia	TWA	35 mg/m <sup>3</sup>
Proprietary component	TWA	25 mg/m <sup>3</sup>
Zinc Oxide	TWA	5 mg/m <sup>3</sup> (Respirable fraction)

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Specimen
No listings		



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### 8.2 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 Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH approved respirator with approved filter. Wear respiratory protection during operations where spraying or misting occurs. 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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9.1 APPEARANCE :	Liquid
ODOR:	Slight vinegar.
ODOR THRESHOLD:	No data available.
COLOR:	Clear, blue green.
pH:	6.5 (neat)
MELTING POINT / FREEZING POINT:	0 °F / -17.8 °C (Freezing point)
BOILING POINT:	212 °F (100 °C)
FLASH POINT:	Does not flash
FLAMMABILITY (solid, gas):	No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOR PRESSURE:	No data available.
SOLUBILITY:	Soluble
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	996cP – 1020cP @ 70 °F / 21.1 °C
SPECIFIC GRAVITY (Water = 1):	1.55 g/ml
DENSITY:	13.00 lbs./gal / 1.55 kg/L

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.

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## 10. STABILITY AND REACTIVITY

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### 10.1 REACTIVITY

Stable

### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not polymerize.

### 10.4 CONDITIONS TO AVOID

Storage, piping, or handling systems made of brass, copper and galvanized metals may be subject to mild corrosion from prolonged or repeated contact with this product.

### 10.5 INCOMPATIBLE 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.



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## 11 TOXICOLOGICAL INFORMATION

### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact.  
**LC<sub>50</sub> (rat):** 2,961 – 5,137 mg/m<sup>3</sup> (Ammonia – 1 HR).  
**LD<sub>50</sub> Oral (rat):** 350 mg/kg (Ammonia); 3,320 mg/kg (Proprietary component)  
**LD<sub>50</sub> Dermal (rabbit):** 1,060 mg/kg (Proprietary component)  
**Acute Toxicity Estimates:** No data available.  
**Skin Irritation (rabbit):** Causes skin irritation.  
**Eye Irritation (rabbit):** Causes serious eye irritation.  
**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

A toxic hazard to fish. Avoid spills or release to watercourses. 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. This product is not intended for use in aquatic settings.

#### Ecotoxicological Data

	Species	Test Results
Proprietary component	Fathead minnow	300.82 mg/L – 96 hour LC <sub>50</sub>
	Daphnia magna	>300.82 – 48 hour EC <sub>50</sub>
Ammonia, anhydrous	Hypophthalmichthys nobilis	0.3 mg/L – 96 hour LC <sub>50</sub>
	Oncorhynchus mykiss	1.1 ppm – 96 hour LC <sub>50</sub>
Zinc Oxide	Daphnia magna	98 µ/L – 48 hour EC <sub>50</sub>

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.

### 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

### 12.4 MOBILITY IN SOIL

No data available.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water 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/>. Do not contaminate water, food or feed by storage or disposal.



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**14 TRANSPORT INFORMATION**

**14.3 LAND TRANSPORT**

DOT Shipping Description: NOT REGULATED

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

HMIS

1 Health	0 Least	1 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	B PPE
	4 Severe	

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate <u>Y</u>	Fire <u>N</u>	Sudden Release of Pressure <u>N</u>
	Delayed <u>N</u>	Reactive <u>N</u>	

**Reportable Quantity (RQ) under U.S. CERCLA:** Ammonia (CAS: 7664-41-7) 100 lbs.; Copper compounds 5,000 lbs.; Manganese Compounds; Zinc Compounds (see 50 FR 13456, April 4, 1985)

**SARA, Title III, Section 313:** Ammonia (CAS: 7664-41-7); Copper Compounds (N100); Manganese Compounds (N450); Zinc Compounds (N982)

**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**

**SDS STATUS:** Section 9 revised.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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