PRODUCTS SAFETY DATA SHEET

SDS NUMBER: 1000362662-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 12/09/15

SUPERSEDES: 03/12/12

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: CALMAX® 10-0-0

1.2 RECOMMENDED USE: CALCIUM SUSPENSION FOR USE ON MANY CROPS

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

Eye Damage/IrritationCategory 2AH319Skin Corrosion/IrritationCategory 2H315Acute Toxicity/InhalationCategory 4H332Acute Toxicity – OralCategory 4H302

2.2 Label elements



Signal word: WARNING

Hazard Statement: H319 – Causes serious eye irritation.

H315 – Causes skin irritation. H332 – Harmful if inhaled. H302 – Harmful if swallowed.

Precautionary

Statement: P264 – Wash hands and face thoroughly after handling.

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

(Prevention): P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

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

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

Precautionary Statement:

(Response): P305+P351+P338: IF IN EYES: Rinse continuously 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.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

P330 - Rinse mouth.

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

P332+P313: If skin irritation occurs: Get medical advice/attention. P362 – Take off contaminated clothing and wash before reuse.

P304+P340: IF INHALED: Remove victim 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:

(Storage): P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

(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

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
Calcium Nitrate	10124-37-5	Skin Irrit. 2; H315	50 - 56
Nitric acid ammonium salt	6484-52-2	Eye Irrit. 2A; H319	Trace to 0.9
Calcium Ammonium Nitrate	15245-12-2	Inh. 4; H332	*
Magnesium Nitrate	10377-60-3		10 - 13
Urea	57-13-6		Trace - 1
Manganese EDTA	15375-84-5		Trace - 1
Iron HEDTA	17084-02-5		Trace - 1
Copper EDTA	51395-10-9		Trace - 1
Zinc EDTA	14025-21-9		Trace - 1
Boric Acid	10043-35-3		Trace - 1
Sodium Molybdate	7631-95-0		Trace0025
Protein Hydrolysate	9015-54-7		Trace - 4
Water	7732-18-5		Trace

4. FIRST AID MEASURES

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 centre 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, preferable 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 (CO₂), 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)	ILVS

Components	Туре	Value
Ammonia	TWA	17 mg/m ³
	STEL/CEIL (C)	24 mg/m ³
Proprietary component	TWA	25 mg/m ³
	STEL/CEIL (C)	37 mg/m ³

U.S. Workplace Exposure Level (OSHA) PELs

Components	Туре	Value
Ammonia	TWA	35 mg/m ³
Proprietary component	TWA	25 mg/m ³

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 evewash 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Suspension ODOR: Slight.

ODOR THRESHOLD: No data available. COLOR: Green. pH: 5.5 – 6.5

MELTING POINT / FREEZING POINT: No data available.

BOILING POINT: 226°F (107.8°C)
FLASH POINT: Does not flash
FLAMMABILILITY (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: No data available. SPECIFIC GRAVITY (Water = 1): 1.56 g/ml

BULK DENSITY: 13.00 lbs./gal / 1.56 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.

10. STABILITY AND REACTIVITY

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 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.

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11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact.

LC₅₀ (rat): 2,961 – 5,137 mg/m³ (Ammonia – 1 HR).

LD₅₀ **Oral (rat):** > 5,000 mg/kg **LD**₅₀ **Dermal (rat):** > 2,000 mg/kg

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 ₅₀	_
	Daphnia magna	>300.82 – 48 hour EC ₅₀	
Ammonia, anhydrous	Hypophthalmichthys nobilis)	0.3 mg/L – 96 hour LC ₅₀	

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

Health 0 Least Health Flammability Slight Flammability 0 0 1 Instability 2 Moderate 0 Reactivity 3

High B PPE Severe

4 :

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N Reactive N

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: Format revised.

PREPARED BY: Registrations and Regulatory Affairs

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REVIEWED BY: Environmental Health and Safety

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