

SAFETY DATA SHEET

GOLD'N GRO® 4-0-9 + 6.6% S FERTILIZER BASE LIQUID

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC® – TOLL FREE 1-800-424-9300

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED 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
Product Emergency Phone: 1-775-667-6044

PRODUCT NAME: GOLD'N GRO 4-0-9 + 6.6% S FERTILIZER BASE LIQUID

CHEMICAL NAME: NONE

CHEMICAL FAMILY: LIQUID PLANT NUTRITIONAL

MSDS Number: 1000363746-13-LPI **MSDS Revisions:** New

Date of Issue: 01/02/13

Supersedes: New

2. HAZARDS IDENTIFICATION

KEEP OUT OF REACH OF CHILDREN – CAUTION: Irritant: Product may irritate eyes and skin. Primary routes of exposure are dermal, inhalation, ingestion.

This product is dark brown liquid with mild ammonia-sulfur odor.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name and Synonyms:</u>	<u>Percent Hazardous by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Zinc Oxide	0.16 <u>Non Hazardous</u>	1314-13-2	2 mg/m ³
This product is a blend of the following non-hazardous ingredients:			
	99.84		
Water		7732-18-5	not listed
Ammonium Thiosulfate		7783-18-8	not listed
Potassium Nitrate		7757-79-1	not listed
Potassium Thiosulfate		10294-66-3	not listed
Iron EDTA		15708-41-5	not listed
EDTA Acid		60-00-4	not listed

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**.

NOTES TO PHYSICIAN: Treatment based on the sound judgment of the physician and the individual reactions of the patient.

5. FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA:** Use carbon dioxide (CO₂) or foam. Water can be used to cool fire exposed containers.
- SPECIAL FIRE FIGHTING PROCEDURES:** 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.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers may burst if exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Dike and contain. If uncontaminated, reuse product. If contaminated, absorb spill with clay, sand, or sawdust. Place in a chemical waster container for proper disposal.

CAUTION: Spill area will be quite slippery.

7. HANDLING AND STORAGE

HANDLING: Be sure proper ventilation, respiratory, and eye protection are used. Avoid eye contact. Do not breathe mist.
STORAGE: Keep container closed. Store in a cool, dry place. Avoid moisture contamination. Use reasonable care and store away from oxidizing materials. Keep away from heat, sparks, and flame. Keep away from children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROLS: Local and general ventilation is recommended. Keep away from sparks and flame.
INDIVIDUAL PROTECTION MEASURES
RESPIRATORY PROTECTION: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines.
EYE / FACE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Zinc Oxide	5 mg/m ³	2 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark brown liquid with mild ammonia-sulfur odor	BULK DENSITY: 10.30 lbs/gal. / 1.23 Kg/L	SOLUBILITY: Soluble
SPECIFIC GRAVITY (Water = 1): 1.234 g/ml	BOILING POINT: >200°F / >93°C	pH: 8.2 – 8.4
VAPOR PRESSURE: Not known	VISCOSITY: Not known	MELTING POINT: No Data
FLASHPOINT: Not flammable	EVAPORATION RATE: (Butyl Acetate = 1): Not known	
VAPOR DENSITY (Air = 1): Not known	RELATIVE DENSITY: Not known	
PERCENT VOLATILE (by volume): Not known	FLAMMABLE LIMITS (LFL & UFL): Lower Flammability Limit: 16%; Upper Flammability Limit: 25%	
AUTO-IGNITION TEMPERATURE: Not known	DECOMPOSITION TEMPERATURE: Not known	

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

REACTIVITY: None known.
CHEMICAL STABILITY: Stable
POSSIBILITY OF HAZARDOUS REACTIONS: None known. Will not polymerize.
CONDITIONS TO AVOID: High temperatures. Contact with oxidizing agents
INCOMPATIBLE MATERIALS: Oxidizing agents, copper, aluminum, nickel, and magnesium.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon (CO₂ and CO).

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, skin, ingestion, and/or inhalation.
LC₅₀ (rat): Not determined or available
Oral LD₅₀ (rat): Not known for product
Oral LD₅₀ (rat): Ammonium Thiosulfate: 2,850 mg/kg; Potassium Nitrate: 1,166 mg/kg; Potassium Thiosulfate: >5,000 mg/kg; Zinc Oxide: 630 mg/kg
Acute Toxicity Estimates: Not available
Serious Eye Damage / Irritation (rabbit): Not determined
Respiratory or Skin sensitization (guinea pig): Not a skin sensitizer
Specific Target Organ Toxicity: None known.
Dermal LD₅₀ (rabbit): Not known
Aspiration: Not determined
Skin Corrosion / Irritation (rabbit): Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity: None listed or known.
Persistence and Degradability: Not known.
Bioaccumulative Potential: Not known.
Mobility in Soil: Not known.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: This material must be disposed of according to local, state, provincial and federal requirements and procedures.

14. TRANSPORT INFORMATION

UN No.: NOT APPLICABLE

UN PROPER SHIPPING NAME: NOT APPLICABLE

TRANSPORT HAZARD CLASS: NOT APPLICABLE

PACKING GROUP: NOT APPLICABLE

ENVIRONMENTAL HAZARDS: NOT DETERMINED

TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78): – IBC CODE: NOT APPLICABLE

Special Precautions (for User): NOT APPLICABLE

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

15. REGULATORY INFORMATION

CAUTION

NFPA & HMIS Hazard Ratings:

NFPA

HMIS

1 Health

0 Least

1 Health

0 Flammability

1 Slight

0 Flammability

1 Instability

2 Moderate

1 Reactivity

3 High

B PPE

4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate

Y

Fire

N

Sudden Release of Pressure

N

Delayed

N

Reactive

N

Reportable Quantity (RQ) under U.S. CERCLA: Zinc (CAS: 7440-66-6) 1,000 lbs.; Ammonia (CAS: 7664-41-7) 1,000 lbs.

SARA, Title III, Section 313: Zinc (CAS: 7440-66-6); Ammonia (CAS: 7664-41-7)

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

MSDS STATUS: New – GHS Version

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

®Gold'nGro is a registered trademark of Itronics Metallurgical 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.