



Safety Data Sheet

Report Date 30-Jun-15

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1. Identification

Product Name : TRACITE GHEP LIQUID MANGANESE 4-0-0
Synonyms : None
Product Use : Complexed Micronutrient - Manganese
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Causes severe skin burns.
Eye Irritation : Based on pH, causes serious eye damage.
Acute Toxicity Oral : No LD50 available.
Acute Toxicity Dermal : No LD50 available.

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye Irritation-1; Skin Irritation-3; STOT Repeated Exposure-2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes severe skin burns and eye damage
May be harmful if inhaled
May cause respiratory irritation
May intensify fire; oxidizer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from manganese nitrate and manganese glucoheptonate.	Proprietary	100.00
Note: The complexing agent is sodium glucoheptonate.		
GUARANTEED ANALYSIS:		
Total Nitrogen (N): 4.00%		
4.00% Nitrate Nitrogen		
Manganese (Mn): 10.00%		
10.00% Water Soluble Manganese (Mn)		

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : 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.



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Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the Chemical : May emit toxic and irritating fumes under fire conditions. May act as an oxidizer under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective equipment. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Do not contaminate water supplies, lakes, streams, ponds, drains or sewers.
Methods and Materials for Containment and Cleanup : If uncontaminated, recover spilled liquid for reuse. If contaminated, cover spilled product with inert absorbent, such as clay or sand. Sweep or scoop up absorbent and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container. Use only stainless steel or PVC fittings due to corrosive nature of this product.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate. This product is corrosive to aluminum, mild steel and brass. Store and/or ship in polypropylene, fiberglass or stainless steel containers.

8. Exposure Controls / Personal Protection

TLV/PEL : TLV - 0.2 mg/m³ (Manganese compounds as Mn). PEL - 5 mg/m³ (Manganese Compounds as Mn).

Appropriate Engineering Controls : Local exhaust is sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties



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Odor/Appearance : Clear, amber liquid with phenolic odor.
Flash Point, °F : Non-combustible
Boiling Point, °F : >212 Degrees F.
Melting Point(Freezing point), °C : <32 Degrees F.
Vapor Pressure, mm Hg @ 20 °C : Not determined
Vapor Density : Not determined
Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.380-1.400
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : <2.0
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition : May produce oxides of carbon and nitrogen under fire conditions.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid elevated temperatures.
Incompatible Materials : Products that react with acidic or oxidizing materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 available. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled. May cause respiratory irritation.
Likely Routes of Exposure : Skin, eyes, inhalation
Skin Irritation : Causes severe skin burns.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : Not listed as a sensitizer.
Carcinogenic : Not listed as a carcinogen.
Chronic Effects : No information found.
Other Hazards : Specific Target Organ Toxicity (STOT), Single Exposure: May cause respiratory irritation.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations



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Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Manganese Nitrate, Solution
Transport Hazard Class : Oxidizer (5.1)
UN Identification Number : UN2724
Packaging Group : PG III
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : Use ERG # 140. Ship only in polypropylene, fiberglass or stainless steel containers.
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 2 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: Y
Reactive: N

16. Other Information

Data of Preparation/Revision : 30-June-2015