



Safety Data Sheet

Report Date 23-May-15

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1. Identification

Product Name : TRACITE GHEP LIQUID IRON
Synonyms : None
Product Use : Complexed micronutrient - Iron
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 : Warning
Skin Irritation : Causes skin irritation
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : LD50 (mouse): 1,520 mg/kg for iron sulfate heptahydrate.
Acute Toxicity Dermal : No data available

Hazard Categories : Oral Toxicity - 4; Eye Irritation - 2A; Skin Irritation - 2

Hazard Statement : Harmful if swallowed
Causes serious eye irritation
Causes skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from ferrous sulfate and iron glucoheptonate. The complexing agent is sodium glucoheptonate. GUARANTEED ANALYSIS: Sulfur (S): 3.50% Iron (Fe): 6.00%	Proprietary	100.00

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.

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



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- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : May produce toxic fumes under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. 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** : Contain spilled product to prevent contamination of water supplies.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, collect and reuse. If contaminated, cover with inert absorbent, such as clay or sand. Sweep or scoop up 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.
- Conditions for Safe Storage** : This product is corrosive to aluminum, mild steel and brass. Store and/or ship in polypropylene, fiberglass or stainless steel containers. Use only stainless steel or PVC fittings. Store in cool place and in original container only.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Ferrous sulfate heptahydrate, TLV = 15 mg/m³.
- Appropriate Engineering Controls** : Local exhaust 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

- Odor/Appearance** : Clear brown liquid with phenolic odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : >100 Degrees C.
- Melting Point(Freezing point), °C** : <0 Degrees C.
- 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** : 1.190-1.210
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : 2.0 to 5.0
- Flammable Limits (approximate volume % in air)** : Not applicable



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Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition : Emits sulfur dioxide, carbon dioxide and carbon monoxide under fire conditions.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : May react vigorously with alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,520 mg/kg (mouse). Harmful if swallowed.
Acute Toxicity (Dermal LD50) : No data available. No hazard classification for skin absorption/dermal toxicity.
Acute Toxicity Inhalation LC50 : No LC50 available. No classification for inhalation toxicity.
Likely Routes of Exposure : Ingestion, skin and eyes
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Not listed as a skin sensitizer
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No information found
Other Hazards : No information found

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

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 : Not regulated by DOT if shipped in non-reactive containers or if in single packages <1,630 gallons.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : If shipped by ground (DOT) in single package with capacity \geq 1,630 gallons, ship as: RQ, Environmentally Hazardous Substance, Liquid, n.o.s., (Ferrous Sulfate), 9, PG III "ERG # 171"



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Special Precautions for Transportation : If shipped by air (IATA) or water (IMDG), ship as UN1760, Corrosive Liquid, n.o.s., (Ferrous Sulfate), 8, PG III
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: 0 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: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 23-May-2015