

Report 23-May-15 Date

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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

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

Composition / Information on Ingredients

Component

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%

CAS Number Proprietary

Weight % 100.00

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 : In the event of an adverse response, treatment should be directed toward control of the symptoms.

Attention and Special Treatment

Needed



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

of fire.

Specific Hazards Arising from the : May produce toxic fumes under fire conditions.

Chemical

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**: If uncontaminated, collect and reuse. If contaminated, cover with inert

Containment and Cleanup 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. reezing point), °C : <0 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 = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH : 2.0 to 5.0

Flammable Limits (approximate : Not applicable

volume % in air)



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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

packagles <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 >/= 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 : If shipped by air (IATA) or water (IMDG), ship as UN1760, Corrosive Liquid,

Transportation 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 N

Pressure: Fire: N Reactive: N

16. Other Information

Data of Preparation/Revision: 23-May-2015