



Safety Data Sheet

Report Date 10-May-15

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1. Identification

Product Name : TRACITE COPPER 5% (CITRIC)
Synonyms : None
Product Use : Chelated Micronutrient - Copper
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 : Slightly irritating with skin contact
Eye Irritation : Moderately irritating with reversible necrosis
Acute Toxicity Oral : LD50 1,680 mg/kg (rat). Harmful if swallowed.
Acute Toxicity Dermal : LD50 >2,020 mg/kg (rabbit). May be harmful in contact with skin.

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 4/5/5; Eye Irritation - 1; Skin Irritation - 3

Hazard Statement : Harmful if swallowed
May be harmful in contact with skin
Causes serious eye damage
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from Copper Sulfate Pentahydrate and citric acid.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Sulfur (S): 2.50%		
Copper (Cu): 5.00%		
The chelating agent is citric acid.		

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.



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5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : None currently known.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

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** : Dike and contain spilled product. Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, reuse as intended. If contaminated, collect with an inert absorbent and place in suitable container for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Keep container tightly closed. Do not allow water to be introduced into the contents of the container. Do not contaminate water, food or feed by storage, handling or disposal.
- Conditions for Safe Storage** : Store in original container only. Temperatures below 45 Degrees F. will result in product crystallization or sedimentation on the bottom of the jug. However, with warmer temperatures and vigorous agitation of the container, the product will reconstitute.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Copper sulfate pentahydrate TLV = 1.0 mg/m3.
- 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

- Odor/Appearance** : Clear, blue liquid.
- 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 applicable
- Vapor Density** : Not applicable
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.153-1.173
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found



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pH : <2.0
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce sulfur dioxide and other toxic fumes under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : May react vigorously with alkaline products.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,680 mg/kg. Harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,020 mg/kg. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >5.64 mg/L (rats exposed to undiluted aerosol). May be harmful if inhaled.
Likely Routes of Exposure : Eye, skin, ingestion
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : Not a contact sensitizer
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : May cause liver and kidney damage.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : Marine Pollutant per 49 CFR 172.101, Appendix B.
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 in packages less than 5.2 gallons. See Transportation Note below.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Marine Pollutant (for bulk packages by ground, any size by air (IATA) or water (IMDG))



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Transport in Bulk : No information found
Special Precautions for Transportation : If shipped in single package greater than or equal to 5.2 gallons, ship as RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Cupric Sulfate), 9, PG III "ERG # 171"
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: Y
Sudden Release of N
Pressure:
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 10-May-2015