

Material Safety Data Sheet

Effective Date: 27-JAN-2012  
Product: TRACITE COPPER 5% (CITRIC)

I. IDENTIFICATION

Chemical Name: Chelated Micronutrients  
Chemical Family: Inorganic Metal Salts  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: >100 Degrees C.  
Freezing Point: <0 Degrees C.  
Spec Gravity: 1.163 gms/cc  
Vapor Pressure: Not applicable  
Vapor Density: Not applicable  
Solubility: 99%  
Volatiles: <0.5%  
Evaporation: Not determined  
Melting Point: Not applicable  
Appearance: Clear, blue liquid.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of Copper Sulfate Pentahydrate (CAS No 7758-99-8), water and chelating agent (citric acid - CAS No 77-92-9).		100.00	1 mg/m3	Skin & eye irritant.

GUARANTEED ANALYSIS:  
Sulfur (S): 2.50%  
Copper (Cu): 5.00%

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible  
Autoignition Temp: Not applicable  
Flammable Limit: Not applicable  
Extinguishing Media: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.  
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing.  
Fire and Expl Hazard: None currently known.

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V. HEALTH HAZARD  
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Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: Harmful if swallowed. May cause malaise, nausea, gastrointestinal damage or even death unless  
Skin Absorption: Harmful if absorbed through broken skin.  
Inhalation: Prolonged exposure to low concentrations of vapor may cause sore throat and headache.  
Skin contact: May cause discomfort and irritation with skin contact.  
Eye Contact: May cause severe eye irritation and possibly irreversible damage.  
Chronic Effects: May cause liver and kidney damage.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: Drink at least 2 glasses of milk of magnesia, milk or water, then induce vomiting. Repeat until vomit is clear. Obtain immediate medical attention.  
Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation develops, seek medical attention.  
Inhalation: Move to fresh air. If breathing becomes difficult, obtain immediate medical attention.  
Eyes: Immediately flush eyes with water, continuing for at least 15 minutes while holding the eyelids apart. Seek medical attention.  
Notes to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed. Copper sulfate is an emetic and has seldom been fatal.

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VI. REACTIVITY  
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Stability: Stable  
Conditions to Avoid: May react vigorously with alkaline products.  
Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.  
Incompatibility material: May react vigorously with alkaline products.

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Hazardous Combustion: May produce sulfur dioxide and other toxic fumes under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Dike and contain spilled product. If uncontaminated, reuse as intended. If contaminated, collect with an inert absorbent and place in suitable container for proper disposal.

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

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions.

Ventilation: Local exhaust sufficient.

Gloves: Impervious gloves.

Eyes: Splashproof goggles.

Other: Emergency shower, eyewash station, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, ponds or drains with this product. Avoid direct physical contact as product may be corrosive to eyes, mucous membranes, skin and gastrointestinal tract.

Other precaution: None currently known.

X. SHIPPING INFORMATION

Shipping name: Not regulated in packages less than 5 gallons. See Transportation Note below.

Hazard Class: None

Identification No: None

Labels Required: None required

Placarding: None

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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Freight Class: Compound, Fertilizer (Manufactured  
Fertilizer), Liquid, NOIBN (NMFC Item 68140,  
Sub 6, Class 70)

Chemical Name Equivalent R.Q.  
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Cupric Sulfate Pentahydrate (CAS No. 7758-99-8) 10 lbs/5.2 gallons

TRANSPORTATION NOTE:

If shipped in single packagings with a capacity of 5.2 gallons or greater,  
must be shipped as:

UN3082, RQ, Environmentally Hazardous Substance, Liquid, n.o.s. (Cupric  
Sulfate), 9, PG III "ERG # 171"

(Marine Pollutant must be added if shipped by vessel or in bulk packagings.)

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XI. GENERAL PRODUCT INFORMATION  
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National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 0 Reactivity: 0

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

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

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Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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