



# Safety Data Sheet

Report Date 11-May-15

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## 1. Identification

**Product Name** : TRACITE 4-4  
**Synonyms** : None  
**Product Use** : Complexed micronutrient - Copper and Zinc  
**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** : Slightly irritating  
**Eye Irritation** : Moderately irritating with reversible necrosis.  
**Acute Toxicity Oral** : LD50 1,680 mg/kg (rat).  
**Acute Toxicity Dermal** : LD50 >2,020 mg/kg (rabbit).  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity - 4/5/4; Eye Irritation - 2A; Skin Irritation - 2  
**Hazard Statement** : Harmful if swallowed  
May be harmful in contact with skin  
Causes serious eye irritation  
Causes skin irritation  
May cause respiratory irritation

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from zinc sulfate and copper sulfate. GUARANTEED ANALYSIS: Copper (Cu): 4.0% Zinc (Zn): 4.0% The complexing agent is lignin sulfonate.	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** : Treatment should be directed toward control of the symptoms.



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### 5. Fire Fighting Measures

- Extinguishing Media** : Not flammable. 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.

### 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. Use NIOSH-approved respirator with cartridge for ammonia. Eyewash and emergency shower should be available in work area.  
**Emergency Procedures** : Do not contaminate water supplies.  
**Methods and Materials for Containment and Cleanup** : If uncontaminated, recover spilled product for reuse as intended. If contaminated, cover spilled product with inert absorbent, such as clay or sand. Collect and place in suitable containers for proper disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Do not put concentrate or dilute into food or drink containers.  
**Conditions for Safe Storage** : Store in a cool, dry place. Keep container closed when not in use. Keep in original container. Do not store or transport near feed or food.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Copper sulfate pentahydrate TLV/PEL=1 mg/m<sup>3</sup> (as copper dust). Zinc sulfate PEL=15 mg/m<sup>3</sup> (nuisance dusts), TLV=10 mg/m<sup>3</sup> (nuisance dusts).  
**Appropriate Engineering Controls** : Local exhaust is sufficient.  
**Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator with cartridge for ammonia. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Dark blue liquid; ammonia odor.  
**Flash Point, °F** : Non-combustible  
**Boiling Point, °F** : >100 Degrees C.  
**Melting Point(Freezing point), °C** : No information found  
**Vapor Pressure, mm Hg @ 20 °C** : 21 mmHg  
**Vapor Density** : Not established  
**Solubility in Water** : 97.50% soluble  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 1.250-1.275  
**Evaporation Rate(Butyl Acetate = 1)** : No information found  
**Octanol/Water Partition Coefficient** : No information found  
**pH** : 7.0 to 8.5



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**Flammable Limits (approximate volume % in air)** : No information found  
**Auto-ignition Temperature** : No information found  
**Decomposition temperature** : No information found

### 10. Stability and Reactivity

**Reactivity** : No information found.  
**Chemical Stability** : Stable  
**Hazardous Decomposition Products** : Sulfur dioxide, oxides of carbon and ammonia under fire conditions.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : None currently known.  
**Incompatible Materials** : Product may react vigorously with alkaline materials.

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : 1,680 mg/kg (rat). Harmful if swallowed.  
**Acute Toxicity (Dermal LD50)** : >2,020 mg/kg (rat). 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** : Eyes, skin, ingestion  
**Skin Irritation** : Causes skin irritation.  
**Eye Irritation** : Causes serious eye damage. Moderately irritating with reversible necrosis.  
**Skin Sensitization** : Not a contact sensitizer.  
**Carcinogenic** : Not listed.  
**Chronic Effects** : None currently known  
**Other Hazards** : None currently known

### 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** : Marine pollutant per 49 CFR 172.101, Appendix B.

### 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 in packages <= 6 gallons.  
**Transport Hazard Class** : None  
**UN Identification Number** : None  
**Packaging Group** : None  
**Environmental Hazards** : Marine Pollutant (copper sulfate pentahydrate) - if shipped in any size package by air (IATA) or water (IMDG), ship as UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Copper Sulfate Pentahydrate), 9, PG III, Marine Pollutant



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- Transport in Bulk** : If shipped in single package >6 gallons, ship as RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Copper Sulfate Pentahydrate), 9, PG III (Add Marine Pollutant if bulk package).
- Special Precautions for Transportation** : No information found
- 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** : 11-May-2015