



# Safety Data Sheet

Report Date 18-Jun-15

Page 1 of 5

## 1. Identification

**Product Name** : TRACITE CROP MIX (CHELATED)(CITRIC)  
**Synonyms** : None  
**Product Use** : Chelated Micronutrient - Crop Mix  
**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** : Causes severe skin burns  
**Eye Irritation** : Causes serious eye damage  
**Acute Toxicity Oral** : LD50 1,520 mg/kg (ferrous sulfate)  
**Acute Toxicity Dermal** : No LD50 available

**Hazard Categories** : Oral/Dermal/Inhalation Toxicity:4/5/5; Eye/Skin Irritation: 1/1C; STOT-RE: 2(central nervous system)

**Hazard Statement** : Harmful if swallowed  
May be harmful in contact with skin  
Causes severe skin burns and eye damage  
May be harmful if inhaled  
May cause damage to organs (central nervous system) through prolonged or repeated exposure (via inhalation)

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from manganese sulfate (CAS No. 7785-87-7), Ferrous Sulfate (CAS No. 7720-78-7), Zinc Sulfate (CAS No. 7733-02-0) The chelating agent is citric acid (CAS No. 77-99-2). GUARANTEED ANALYSIS: Sulfur (S): 3.50%	Proprietary	100.00



## Safety Data Sheet

Report Date 18-Jun-15

Page 2 of 5

Iron (Fe): 1.00%  
Manganese (Mn): 1.00%  
Zinc (Zn): 4.00%

### 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

- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Emits sulfur dioxide 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 spreading or entry to water supplies, drains or sewers.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, recover spilled product for reuse. If contaminated, cover with inert absorbent then scoop or shovel up and place in suitable containers for proper disposal.

### 7. Handling and Storage



## Safety Data Sheet

Report Date 18-Jun-15

Page 3 of 5

**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. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.

**Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : TLV - 1 mg/m<sup>3</sup> (Iron Salts, Soluble (as Fe))

**Appropriate Engineering Controls** : Local exhaust should be 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 yellow to light green liquid.

**Flash Point, °F** : Not flammable

**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 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** : <2.5

**Flammable Limits (approximate volume % in air)** : Not determined

**Auto-ignition Temperature** : Not applicable

**Decomposition temperature** : No information found

### 10. Stability and Reactivity

**Reactivity** : No information found

**Chemical Stability** : Stable

**Hazardous Decomposition Products** : Sulfur dioxide may be emitted under fire conditions.

**Hazardous Polymerization** : Will not occur

**Conditions to Avoid** : None currently known



## Safety Data Sheet

Report Date 18-Jun-15

Page 4 of 5

**Incompatible Materials** : Product may react vigorously with alkaline materials.

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : 1,520 mg/kg (ferrous sulfate). Harmful if swallowed.

**Acute Toxicity (Dermal LD50)** : No LD50 available. May be harmful in contact with skin.

**Acute Toxicity Inhalation LC50** : No LC50 available. May be harmful if inhaled.

**Likely Routes of Exposure** : Skin, eyes, ingestion

**Skin Irritation** : Causes severe skin burns.

**Eye Irritation** : Causes serious eye damage.

**Skin Sensitization** : Not listed as a skin sensitizer.

**Carcinogenic** : Not listed by IARC, NTP or OSHA.

**Chronic Effects** : May cause damage to organs (central nervous system) through prolonged or repeated exposure via inhalation.

**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** : 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 in a single packages <875 gallons.

**Transport Hazard Class** : None

**UN Identification Number** : None

**Packaging Group** : None

**Environmental Hazards** : Reportable Quantity (RQ) = 1,000 lbs Ferrous Sulfate (>=2,000 gallons); 1,000 lbs Zinc Sulfate (>875 gallons).

**Transport in Bulk** : If shipped in single package >875 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Zinc Sulfate), 9, PG III "ERG # 171"



# Safety Data Sheet

Report Date 18-Jun-15

Page 5 of 5

**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: Y  
Sudden Release of N Pressure:  
Fire: N  
Reactive: N

## 16. Other Information

**Data of Preparation/Revision** : 18-June-2015