

Report Date 02-Jun-15

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#### 1. Identification

Product Name: TRACITE LF ROW CROP MIX

Synonyms: None

**Product Use**: Micronutrient Fertilizer 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: Warning

Skin Irritation: Causes skin irritation.

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

Acute Toxicity Oral : Harmful if swallowed.

**Acute Toxicity Dermal**: No hazard anticipated due to skin absorption.

Hazard Categories: Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-2A/2; STOT

Repeated Exposure-2

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin Causes serious eye irritation Causes skin irritation 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 % |  |
|------------------------------|------------|----------|--|
| Ammonium Hydroxide           | 1336-21-6  | 30       |  |
| Zinc Sulfate Monohydrate     | 7733-02-0  | <12.50   |  |
| Manganese Sulfate            | 7785-87-7  | <3.50    |  |
| Ferrous Sulfate Heptahydrate | 7782-63-0  | <5.00    |  |
| Copper Sulfate Pentahydrate  | 7758-99-8  | 1.00     |  |



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Inert ingredients and formulation aids, including citric acid. See label for Guaranteed Analysis. Proprietary

>48.00

#### 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.

**Attention and Special Treatment** 

Needed

Indication of Immediate Medical: 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

Chemical

Specific Hazards Arising from the : May emit toxic and irritating fumes 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: Do not contaminate water supplies with spilled product.

**Containment and Cleanup** 

Methods and Materials for : Contain product and reuse, if uncontaminated. If contaminated, absorb with inert

absorbent, such as clay or sand. Collect and place in suitable labeled-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. Keep container tightly closed. Do not allow

water to be introduced into the contents of the container.



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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: Manganese Sulfate (manganese compounds as Mn)-TLV/PEL=0.2 mg/m3 and 5

mg/m3. Copper Sulfate-TLV/PEL=1 mg/m3 and 1 mg/m3. Ferrous Sulfate (as Iron salts)-TLV/PEL=1 mg/m3 and 1 mg/m3. Ammonium Hydroxide-PEL=35

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 dark brown to black liquid; ammonia odor.

Flash Point, oF : Non-combustible

Boiling Point, oF : 100 Degrees C.

Melting Point(Freezing point), oC : <-5 Degrees C.

Vapor Pressure, mm Hg @ 20 oC : Not determined

Vapor Density : Not determined

Solubility in Water : Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.219-1.229

Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

**pH**: 7.0 to 8.0

Flammable Limits (approximate : Not applicable

volume % in air)

Auto-ignition Temperature : Not applicable

**Decomposition temperature**: No information found

#### 10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition: Emits ammonia gas and sulfur oxides under fire conditions.

Products

Hazardous Polymerization : Will not occur

**Conditions to Avoid**: Do not mix with acids or silver compounds.



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Incompatible Materials : This product may react vigorously with acids or silver compounds.

#### 11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. 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, inhalation.

Skin Irritation: Causes skin irritation.

**Eye Irritation**: Causes serious eye irritation. **Skin Sensitization**: Not listed as a sensitizer.

Carcinogenic: None currently known.

Chronic Effects : May cause damage to organs (central nervous system) through prolonged or

repeated exposure (via inhalation) (manganese sulfate).

Other Hazards : None currently known.

#### 12. Ecological Information

**Ecotoxicity**: Copper sulfate is a Marine Pollutant.

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 single package sizes < 97.5 gallons.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

Environmental Hazards : Marine Pollutant (ground (DOT) bulk only)

**Transport in Bulk**: If shipped in single container >/=97.5 gallons, ship as: RQ, UN3082,

Environmentally Hazardous Substance, Liquid, n.o.s., (Cupric Sulfate), 9, PG III,

Marine Pollutant "ERG # 171"



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**Transportation** 

Special Precautions for : Reportable quantity (RQ) exceeded for cupric sulfate (10 pounds/97.5 gallons), ammonium hydroxide (1,000 pounds/330 gallons), zinc sulfate monohydrate (1,000 pounds/781 gallons), ferrous sulfate heptahydrate (1,000 gallons/1,951

gallons).

Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item

68140, Sub 6, Class 70)

### 15. Regulatory Information

National Fire Protection: **Association Rating** 

2 Health: 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 : 02-June-2015