

Report 24-Apr-20 Date

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1. Identification

Product Name: TRACITE LF ROW CROP MIX

Synonyms: None

Product Use : Micronutrient Fertilizer Mix Manufacturer/Supplier : Helena Agri-Enterprises, LLC

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 : May be harmful in contact with skin.

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

May be harmful if inhaled Causes serious eye irritation

Causes skin irritation

May cause damage to organs (central nervous system) through prolonged

or repeated exposure (via inhalation)

3. Composition / Information on Ingredients

Component

CAS Number

Weight %

100.00

Blend of plant nutrients derived from zinc sulfate, copper sulfate, manganese

sulfate and ferrous sulfate. Note: The chelating agent is citric acid. Proprietary



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GUARANTEED ANALYSIS:

Sulfur (S): 3.50%

3.50% Combined Sulfur

Copper (Cu): 0.25%

0.25% Chelated Copper

Iron (Fe): 1.00%

1.00% Chelated Iron

Manganese (Mn): 1.00%

1.00% Chelated Manganese

Zinc (Zn): 4.50%

4.50% Chelated Zinc

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

of fire.

Specific Hazards Arising from the : May emit toxic and irritating fumes under fire conditions.

Chemical

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.



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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.

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

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), ₀C : <-5 Degrees C. Vapor Pressure, mm Hg @ 20 ₀C : Not determined

Vapor Density : Not determined

Solubility in Water : Soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.219-1.239 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



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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.

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 damage to organs (central nervous system) through prolonged or repeated

exposure (via inhalation)(manganese sulfate).

Other Hazards : CA PROPOSITION 65 WARNING: No listed ingredients appear on the CA

PROPOSITION 65 WARNINGS listing.

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.



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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"

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**

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 : 24-April-2020