

Report 04-Jun-15 Date

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1. Identification

Product Name: TRACITE MZMF (CITRIC)

Synonyms: None

Product Use: Chelated micronutrients - Mg, Zn, Mn, Fe

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 skin irritation

Eye Irritation : Causes serious eye damage

Acute Toxicity Oral : LD50 1,520 mg/kg. Acute Toxicity Dermal : No LD50 available.

Hazard Categories: Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/2; STOT-RE: 2

(central nervous system)

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin Causes serious eye damage 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

Blend of plant nutrients derived from

CAS Number Proprietary

Weight %

100.00

magnesium sulfate, magnesium glucoheptonate, iron sulfate, iron glucoheptonate, manganese sulfate,

manganese glucoheptonate, sodium molybdate, zinc sulfate and zinc glucoheptonate.



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Chelating agents are sodium glucoheptonate and citric acid. **GUARANTEED ANALYSIS:**

Magnesium (Mg): 1.50%

Iron (Fe): 1.00%

Manganese (Mn): 3.50%

Molybdenum (Mo): 0.02%

Zinc (Zn): 3.50%

Chlorine (CI), max: not more than 1.00%

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

Specific Hazards Arising from the : Metal oxides, nitrogen oxides and ammonia.

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. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

Emergency Procedures : Dike spilled product to prevent spreading to soil and contamination of water supplies, drains or sewers.

Containment and Cleanup

Methods and Materials for : If uncontaminated, collect and reuse as intended. If contaminated, absorb with an inert materials, such as sand, and dispose of in accordance with local regulations.



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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: No PEL or TLV for mixture.

Appropriate Engineering Controls : General and/or 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, amber to dark amber liquid; little/no odor.

Flash Point, oF: Non-combustible

Boiling Point, oF: Not determined

Melting Point(Freezing point), oC : Not determined Vapor Pressure, mm Hg @ 20 oC : Not applicable

Vapor Density : Not determined

Solubility in Water : Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 oC : 1.380-1.400

Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH : <2.5

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



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Hazardous Decomposition: May produce metal oxides, nitrogen oxides and ammonia.

Products

Hazardous Polymerization : Will not occur

Conditions to Avoid: None currently known **Incompatible Materials**: None currently known.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,520 mg/kg (iron sulfate heptahydrate). 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: Eyes, skin, ingestion, inhalation.

Skin Irritation: Causes skin irritation.

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.

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



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Environmental Hazards : Reportable Quantity (RQ) Ferrous Sulfate>1,724.1 gallons and Zinc

Sulfate>874.1 gallons.

Transport in Bulk : No information found

Transportation

Special Precautions for : May be regulated if offered for shipment by air (IATA) or water (IMDG).

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 : 04-June-2015