

Report 27-May-15 Date

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### Identification

Product Name : TRAFIX ZM Synonyms: None

Product Use: Chelated Micronutrient - Zinc and Manganese

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

**General Information**: 901-761-0050

**Transportation Emergency Number**: CHEMTREC:800-424-9300

### **Hazard Identification**





Signal Word: Warning

**Skin Irritation**: May cause skin irritation with prolonged or repeated contact. Eye Irritation: May cause eye irritation after prolonged or repeated contact. Acute Toxicity Oral : No data available for mixture. Based on components, harmful if

swallowed.

Acute Toxicity Dermal : No data available for mixture.

Hazard Categories: Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-2A/3;

STOT-RE-2 (central nervous system)

**CAS Number** 

**Proprietary** 

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin Causes serious eye irritation Causes mild skin irritation May be harmful if inhaled

May cause damage to organs (state all organs affected, if known) through

Weight %

100.00

prolonged or repeated exposure (state route of exposure if it is

conclusively proven that no other routes of exposure cause the hazard)

#### **Composition / Information on Ingredients**

Component Blend of plant nutrients derived from manganese sulfate and zinc sulfate. The

chelating agent is citric acid. The complexing agent is glucoheptonate. **GUARANTEED ANALYSIS:** 

> Sulfur (S): 3.00% Manganese (Mn): 3.00%

Zinc (Zn): 3.00%

#### **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.



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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

Indication of Immediate Medical : In the event of an adverse response, treatment should be directed toward

control of the symptoms. **Attention and Special Treatment** Needed

**Fire Fighting Measures** 

Extinguishing Media: Non-combustible liquid. Use extinguishing media for underlying cause of fire.

**Specific Hazards Arising from the**: Product may produce toxic fumes under fire conditions.

Chemical

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective equipment. Use

water spray to keep fire-exposed containers cool.

**Accidental Release Measures** 

Personal Precautions: Keep unprotected and unnecessary personnel out of spill area.

: Splashproof goggles or face shield, impervious gloves, impervious apron and **Protective Equipment** 

footwear. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

Emergency Procedures : Do not contaminate water supplies. Methods and Materials for

**Containment and Cleanup** 

: Contain product and reuse material, if uncontaminated. If contaminated, absorb

material with an absorbent such as clay or sand, and place in suitable

containers for proper disposal.

**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.

Store in original container only. Do not store near heat or open flame. Do not Conditions for Safe Storage :

store with oxidizing agents or ammonium nitrate.

**Exposure Controls / Personal Protection** 

TLV/PEL: Zinc Sulfate - no PEL or TLV; Manganese Sulfate (Manganese Compounds as

Mn) - 5 mg/m3 (PEL) and 0.2 mg/m3 (TLV).

Appropriate Engineering Controls: Local exhaust is sufficient.

: Splashproof goggles or face shield, impervious gloves, impervious apron and **Personal Protective Equipment** 

footwear. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

**Physical and Chemical Properties** 

Odor/Appearance: Clear dark brown liquid with ammonia odor.

Flash Point, °F : Non-combustible. Boiling Point, °F : >212 Degrees F. Melting Point(Freezing point), °C : <32 Degrees F.



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Vapor Pressure, mm Hg @ 20 °C : Not determined

Vapor Density: Not determined

Solubility in Water : Soluble

**Molecular Formula**: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.252-1.272 Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

**pH**: 8.8 to 9.5

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

Hazardous Decomposition : Carbon dioxide, carbon monoxide, ammonium gas and sulfur oxides under fire

**Products** conditions.

Hazardous Polymerization : Will not occur

Conditions to Avoid : None currently known

Incompatible Materials: Product may react vigorously with alkaline materials. Product pH=9.0; may be

corrosive to galvanized steel and aluminum.

### 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**: Ingestion, skin, eyes, inhalation

Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Not listed as a sensitizer
Carcinogenic : Not currently listed.

Chronic Effects: None currently known.

Other Hazards: Specific Target Organ Toxicity - Repeated Exposure: May cause damage to

organs (central nervous system) through prolonged or repeated exposure via

inhalation. (due to manganese sulfate)

### 12. Ecological Information

**Ecotoxicity**: No information found

Persistence and Degradability: No information found Bioaccumulative Potential: No information found

Mobility in Soil: 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 for highway transportation in containers less than 1,126 gallons.

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

Environmental Hazards : Reportable Quantity (RQ) for zinc sulfate = 1,000 lbs/1,126 gallons.

Transport in Bulk : If >/= 1,126 gallons shipped in a single package, ship as: RQ, UN3082,

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

"ERG # 171"

Special Precautions for : If shipped by air, ship as: UN3266, Corrosive Liquid, Basic, Inorganic, n.o.s.,

Transportation (Zinc Sulfate), 8, PG III

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 N
Pressure:

Fire: N Reactive: N

### 16. Other Information

Data of Preparation/Revision: 27-May-2015