

Report 10-May-15 Date

Page 1 of 4

Identification

Product Name: ECO-MATE MANGANESE 5%

Synonyms: None

Product Use : Complexed micronutrient - 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: Direct skin contact may cause irritation. Eye Irritation: Eye contact may cause irritation.

Acute Toxicity Oral : Ingestion may cause vomiting and abdominal cramps.

Acute Toxicity Dermal: No hazardous effects currently known.

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

3

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin

Causes eye irritation Causes mild skin irritation May be harmful if inhaled

Composition / Information on Ingredients

Component

Blend of plant nutrients derived from manganese sulfate. **GUARANTEED ANALYSIS:**

Sulfur (S): 3.25% Manganese (Mn): 5.00% The complexing agent is lignin sulfonate.

CAS Number Proprietary

Weight % 100.00

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.



Report 10-May-15 Date

Page 2 of 4

Fire Fighting Measures

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

of fire.

Specific Hazards Arising from the

Chemical

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

: May emit toxic fumes under fire conditions.

Accidental Release Measures

Containment and Cleanup

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

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

footwear. No respiratory protection needed under normal conditions. Eyewash

should be available in work area.

Emergency Procedures : Do not contaminate water supplies with spilled product.

: Contain spilled product. Reuse if uncontaminated. If contaminated, absorb with Methods and Materials for

an inert material, such as clay, sand or sawdust. Collect and place in suitable

container for 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.

Conditions for Safe Storage : Store in original container only.

Exposure Controls / Personal Protection

TLV/PEL: Manganese compounds - OSHA PEL 5 mg/m3

Appropriate Engineering Controls : Local exhaust is sufficient.

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

footwear. No respiratory protection needed under normal conditions. Eyewash

should be available in work area.

Physical and Chemical Properties

Odor/Appearance: Turbid brown liquid. Flash Point, ⁰F : Non-combustible Boiling Point, ⁰F : >100 Degrees C.

Melting Point(Freezing point), °C : <0 Degrees C. Vapor Pressure, mm Hg @ 20 °C : Not determined

Vapor Density: Not determined Solubility in Water: 99% soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.158-1.178 Evaporation Rate(Butyl Acetate = : Not determined

Octanol/Water Partition : No information found

Coefficient

pH: 3.5 to 5.0

Flammable Limits (approximate : Not applicable

volume % in air)



Report Date 10-May-15

Page 3 of 4

Auto-ignition Temperature : Not applicable Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : May emit sulfur dioxide under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known.

Incompatible Materials: Avoid contact with strong acids and strong alkalies.

11. Toxicological Information

Acute Toxicity (Oral LD50): No LD50 available. Ingestion may cause vomiting and abdominal cramps. May

be harmful if swallowed.

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

Acute Toxicity Inhalation LC50 : No LC50 known. Spray mist inhalation may cause nose/throat irritation. May be

harmful if inhaled.

Likely Routes of Exposure : Skin, eyes, ingestion, inhalation **Skin Irritation** : Causes mild skin irritation.

Eye Irritation : Causes eye irritation.

Skin Sensitization : No information found
Carcinogenic : None currently known.

Chronic Effects : None currently known.

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, IATA or IMDG.

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

Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for : No information found

Transportation



Report Date 10-May-15

Page 4 of 4

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

68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection :

Association Rating

Health: 1 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: 10-May-2015