

Report 04-Dec-19

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1. Identification

Product Name : ECO-MATE 5 MN

Synonyms: None

Product Use : Complexed micronutrient - Manganese

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 mild skin irritation **Eye Irritation**: Causes eye irritation

Acute Toxicity Oral : No LD50 available. Harmful if swallowed. Ingestion may cause vomiting

and abdominal cramps.

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

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

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from	Proprietary	100.00
manganese sulfate and lignin sulfonate.		
Note: The complexing agent is lignin		
sulfonate.		
GUARANTEED ANALYSIS:		
Sulfur (S):		3.25%
3.25% Combined Sulfur		
Manganese (Mn):		5.00%
5.00% Water Soluble Manganese		

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.



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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.

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 fumes under fire conditions.

Chemical

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. No respiratory protection needed under normal conditions. Eyewash

should be available in work area.

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

Methods and Materials for

Contain spilled product. Reuse if uncontaminated. If contaminated, absorb with **Containment and Cleanup**

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, °F : Non-combustible Boiling Point, °F : >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

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Octanol/Water Partition : No information found

Coefficient

pH: 3.5 to 5.0

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 : 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. Harmful if swallowed. Ingestion may cause vomiting and

abdominal cramps.

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

Acute Toxicity Inhalation LC50: No LC50 known. May be harmful if inhaled. Spray mist inhalation may cause

nose/throat irritation.

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: CA PROPOSITION 65 WARNINGS: No listed ingredient appears on the CA

PROPOSITION 65 WARNINGS listing.

12. Ecological Information

Persistence and Degradability
Bioaccumulative Potential
Mobility in Soil
Other Adverse Effects

No information found
No information found
No information found
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



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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

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: 04-December-2019