

Report Date 28-Apr-15

Page 1 of 4

1. Identification

Product Name: ECO-MATE MAGNESIUM 4% (LIGNIN)

Synonyms: None

Product Use : Complexed Micronutrient

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: Warning (no symbol)

Skin Irritation: No adverse effects expected by may cause minor skin irritation.

Eye Irritation: No adverse effects expected.

Acute Toxicity Oral : Magnesium salts are slowly absorbed, abdominal pain, vomiting and

diarrhea may be the only symptoms.

Acute Toxicity Dermal : No information found.

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

3

Hazard Statement: May be harmful if swallowed

May be harmful in contact with skin

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

3. Composition / Information on Ingredients

Component

Blend of micronutrients derived from Magnesium Sulfate (CAS No. 7487-88-9). The complexing agent is lignin sulfonate (CAS No. 9009-75-0).

GUARANTEED ANALYSIS: Sulfur (S): 5.00% Magnesium (Mg): 4.00% CAS Number Proprietary Weight % 100.00

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.

Indication of Immediate Medical : Treat symptomatically.

Attention and Special Treatment

Needed

5. Fire Fighting Measures



Report 28-Apr-15 Date

Page 2 of 4

Extinguishing Media: Not a combustible liquid. Use extinguishing media suitable for underlying

cause of fire.

Specific Hazards Arising from the: May produce toxic 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.

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. Eyewash should be available in work area. No respiratory protection

normally needed.

: Do not contaminate water supplies, lakes, streams, ponds or drains with spilled **Emergency Procedures**

product.

Methods and Materials for

Contain spilled product and reuse if uncontaminated. Absorb with inert material, **Containment and Cleanup** such as clay or sand, and place in suitable containers for proper disposal, if

contaminated.

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.

Exposure Controls / Personal Protection

TLV/PEL: No TLV or PEL established.

Appropriate Engineering Controls: Local exhaust sufficient.

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

footwear. Eyewash should be available in work area. No respiratory protection

normally needed.

Physical and Chemical Properties

Odor/Appearance: Opaque, dark brown liquid; slight odor.

Flash Point, °F : Not combustible Boiling Point, ⁰F : No information found Melting Point(Freezing point), °C : <30 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : No information found Vapor Density: No information found

Solubility in Water : Miscible

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.234-1.254

Evaporation Rate(Butyl Acetate = : Normal 0.4 (water)

Octanol/Water Partition : No information found

Coefficient

pH: 7.0-9.0



Report Date 28-Apr-15

Page 3 of 4

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 : Oxides of sulfur and the contained metal.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid mixing with phosphates, ethoxy ethyl alcohols, tartrates, alkali metals.

Incompatible Materials: Phosphates, ethoxy ethyl alcohols, tartrates, alkali metals.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Magnesium salts are slowly absorbed; abdominal

pain/vomiting/diarrhea may occur.

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 and eyes

Skin Irritation : Causes mild skin irritation.

Eye Irritation : Causes eye irritation.

Skin Sensitization : No information found

Carcinogenic: Not listed by IARC, NTP or OSHA.

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.

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

Environmental Hazards : No information found Transport in Bulk : No information found



Report Date 28-Apr-15

Page 4 of 4

Special Precautions for : None

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: 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 : 28-April-2015