

Report Date 06-Aug-19

Page 1 of 4

1. Identification

Product Name: ECO-MATE 10 Zn

Synonyms: None

Product Use : Complexed Micronutrient - Zinc 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 : Harmful if swallowed.

Acute Toxicity Dermal: 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 %
Zinc Sulfate	7733-02-0	>28
Water and ligninsulfonate, a complexing	Proprietary	<72
agent. GUARANTEED ANALYSIS:		
Sulfur (S):		4.50%
4.50% Combined Sulfur Zinc (Zn):		10.00%
10.00% Water Soluble Zinc		

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 water. Do not induce vomiting. Do not give anything by mouth if

unconscious.

Indication of Immediate Medical : Attention and Special Treatment

 Treat symptomatically. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s)

Needed labeling.



Report 06-Aug-19 Date

Page 2 of 4

Fire Fighting Measures

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

Chemical

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

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.

: 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 : Contain spilled product to prevent spreading to soil, waterways or drains.

Methods and Materials for : Collect and reuse, if uncontaminated. If contaminated, absorb material with inert

absorbent such as clay or sand. Collect and place in suitable container for **Containment and Cleanup**

proper disposal.

Handling and Storage

Precautions for Safe Handling: Keep out of reach of children. Keep container tightly closed. Do not allow water

to be introduced to the contents of this container. Do not contaminate water

sources by cleaning or equipment or disposal of spray waste.

Conditions for Safe Storage : Store in original container only.

Exposure Controls / Personal Protection

TLV/PEL: Not established for this mixture.

Appropriate Engineering Controls: Local exhaust 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.

Physical and Chemical Properties

Odor/Appearance: Opaque brown liquid without solids.

: Non-combustible Flash Point. °F Boiling Point, °F : >212 Degrees F. Melting Point(Freezing point), °C : </= 30 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : Not established Vapor Density: Not established

Solubility in Water : 99%

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.314-1.334 Evaporation Rate(Butyl Acetate = : Not established

1)

Octanol/Water Partition : No information found

Coefficient

pH: 2.5 to 4.5



Report Date 06-Aug-19

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 reactivity rating

Chemical Stability: Stable

Hazardous Decomposition : Sulfur dioxide, carbon dioxide and carbon monoxide under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known

Incompatible Materials: Product may react vigorously with alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Harmful if swallowed. Ingestion results in vomiting and

abdominal cramps.

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, eyes, skin.

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 WARNING: 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 in single containers <321.5 gallons.

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

Environmental Hazards : No information found



Report Date 06-Aug-19

Page 4 of 4

Transport in Bulk : If shipped in single package >/= 321.5 gallons, ship as: RQ, UN3082,

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

"ERG # 171"

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: 06-August-2019