

Report 04-Jun-15

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1. Identification

Product Name : ELE-MAX MANZINC FL 1-0-0

Synonyms: None

Product Use : Foliar Nutritional Liquid Flowable

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 health pictogram)
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50>2,000 mg/kg (rat)

Acute Toxicity Dermal : May be harmful in contact with skin

Hazard Categories: Aquatic Toxicity (Acute/Chronic)-1/2; Oral/Dermal/Inhalation Tox-5/5/5;

Eye/Skin Irritation-2B/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
Very toxic to aquatic life

Toxic to aquatic life with long lasting effects

3. Composition / Information on Ingredients

Component

CAS Number

Weight % 100.00

Proprietary blend of plant nutrients derived from Urea, Manganese Carbonate and Zinc Oxide. Guaranteed Analysis: Total Nitrogen (N): 1.00 Manganese (Mn): 14.00% Zinc (Zn): 19.50%

4. First Aid Measures

Eye: Rinse eyes with plenty of running water. Check for and remove any contact

lenses. Get medical attention if irritation occurs.

Skin: Wash with soap and water. Get medical attention if irritation develops.

Inhalation: Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get

medical attention if you feel unwell.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Get medical

attention if adverse health effects persist or are severe.

Indication of Immediate Medical : Treat symptomatically. Contact poison control center if large quantities have

Attention and Special Treatment been ingested or inhaled. In case of inhalation of decomposition products in a

Needed fire, symptoms may be delayed. Observe exposed person for 48 hours.



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5. Fire Fighting Measures

Extinguishing Media: Use an extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the : In a fire or if heated, a pressure increase will occur and the container may

Chemical burst.

Special Fire Fight Proc : Promptly isolate the scene by removing all persons from the vicinity of the

incident if there is a fire. Wear self-contained breathing apparatus and full

protective clothing.

6. Accidental Release Measures

Personal Precautions : Evacuate surrounding areas. Keep unnecessary and unprotected personnel

from entering. Do not touch or walk through spilled material. Put on appropriate

personal protective equipment.

Protective Equipment : Eyewash station, emergency shower, chemical-resistant gloves, splashproof

goggles, impervious apron and footwear.

Emergency Procedures: Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers.

Methods and Materials for : Stop leak if without risk. Move containers from spill area. Absorb with an inert

Containment and Cleanup dry material. Collect and place in appropriate waste disposal container.

7. Handling and Storage

Precautions for Safe Handling: Eating, drinking and smoking should be prohibited in areas where this material

is handled, stored and processed. Workers should wash hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas.

Conditions for Safe Storage: Store in accordance with local regulations. Store in original container protected

from direct sunlight in a dry, cool and well-ventilated area, away from

incompatible materials, food and drink. Keep container tightly closed and sealed

until ready for use.

8. Exposure Controls / Personal Protection

TLV/PEL: Not established.

Appropriate Engineering Controls: Good general ventilation should be sufficient to control worker exposure to

airborne contaminants.

Personal Protective Equipment : Eyewash station, emergency shower, chemical-resistant gloves, splashproof

goggles, impervious apron and footwear.

9. Physical and Chemical Properties

Odor/Appearance : Pale yellow or brown liquid with undetermined odor

Flash Point, °F : Not flammable
Boiling Point, °F : Not determined
Melting Point(Freezing point), °C : <-5 Degrees C.

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

Vapor Density : Not determined

Vapor Density : Not determined Solubility in Water : Not determined

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.777



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Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : Not determined

Coefficient

pH:9

Flammable Limits (approximate : Not determined

volume % in air)

Auto-ignition Temperature: Not applicable **Decomposition temperature**: Not determined

10. Stability and Reactivity

Reactivity: No specific test data related to reactivity.

Chemical Stability: Stable

Hazardous Decomposition : Under normal conditions of storage and use, hazardous decomposition products

Products should not be produced.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid contamination by any source including metals, dust and organic materials.

Incompatible Materials: Urea reacts with calcium hypochlorite or sodium hypochlorite to form the

explosive nitrogen trichloride.

11. Toxicological Information

Acute Toxicity (Oral LD50): >2,000 mg/kg (rat). May be harmful if swallowed.

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

Acute Toxicity Inhalation LC50 : >5.34 mg/L (rat). May be harmful if inhaled.

Likely Routes of Exposure: Skin, eyes, inhalation.

Skin Irritation : Causes mild skin irritation.

Eye Irritation : Causes eye irritation.

Skin Sensitization
 Carcinogenic
 Chronic Effects
 Other Hazards
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

Persistence and Degradability: Readily biodegradable in plants and soils.

Bioaccumulative Potential: The product does not show any bioaccumulation phenomena.

Mobility in Soil: Not available.

Other Adverse Effects: No known significant effects or critical hazards.

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



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UN Proper Shipping Name : Not regulated by DOT in non-bulk packages. Regulated by IATA, IMDG and

DOT in bulk packages as Environmentally Hazardous Substance, Liquid, n.o.s.

(Zinc Oxide), Marine Pollutant

Transport Hazard Class : Class 9
UN Identification Number : UN3082
Packaging Group : PG III

Environmental Hazards: Marine Pollutant - bulk packags in the US only

Transport in Bulk : Marine Pollutant Special Precautions for : Marine Pollutant

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: N
Delayed (Chronic) Health: N
Sudden Release of N
Pressure:

Pressure: Fire: N Reactive: N

16. Other Information

Data of Preparation/Revision: 04-June-2015