

Report 31-Jan-15 Date

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Identification

Product Name: ELE-MAX SUPER ZINC 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

Hazard Identification



Signal Word: No Signal Word

Skin Irritation: Slightly irritating to the skin. **Eye Irritation**: Moderately irritating to eyes.

Acute Toxicity Oral : No known significant effects or critical hazards. Acute Toxicity Dermal: No known significant effects or critical hazards.

Hazard Categories: Aquatic Toxicity (Acute) -1; Aquatic Toxicity (Chronic) - 1

Hazard Statement: Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Composition / Information on Ingredients

Component **CAS Number** Weight % 100.00

Blend of plant nutrients derived from Urea and Zinc Oxide. Guaranteed Analysis: Total Nitrogen (N): 1.00%

Zinc (Zn): 40.00% Chlorine (CI), maximum: 1.00%

4. First Aid Measures

Eye: Rinse eye 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.

Indication of Immediate Medical: Treat symptomatically, Contact poison control center immediately if large

quantities have been ingested or inhaled. In case of inhalation of decomposition **Attention and Special Treatment**

products in a fire, symptoms may be delayed. Observe for 48 hours. Needed

Fire Fighting Measures

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



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Chemical

Specific Hazards Arising from the : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water must be and prevented from being discharged to any waterway, sewer or

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

incident if there is a fire. Wear appropriate protective equipment and

self-contained breating apparatus.

Accidental Release Measures

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

from entering. Do not touch or walk through spilled material.

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

apron and footwear. Use air-purifying respirator when needed.

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

drains and sewers. May be harmful to environment if released in large

quantities. Collect spillage.

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

dry material and place in an appropriate waste disposal container.

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 and face before eating, drinking and smoking. Remove contaminated clothing and protective

equipment before entering eating areas.

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

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. Containers that have been opened must be carefully

resealed and kept upright to prevent leakage.

Exposure Controls / Personal Protection

TLV/PEL: Not established for mixture

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, impervious

apron and footwear. Use air-purifying respirator when needed.

Physical and Chemical Properties

Odor/Appearance: White liquid; undetermined odor.

Flash Point, °F : Not flammable Boiling Point, °F : Not determined Melting Point(Freezing point), °C : -7 Degrees C.

Vapor Pressure, mm Hg @ 20 °C : Not determined Vapor Density: Not determined Solubility in Water : Not determined

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.734

Evaporation Rate(Butyl Acetate = : Not determined

Octanol/Water Partition : Not determined

Coefficient



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pH:9

Flammable Limits (approximate : Not determined

volume % in air)

Auto-ignition Temperature : Not determined 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) : No known significant effects or critical hazards.

Acute Toxicity (Dermal LD50) : No known significant effects or critical hazards.

Acute Toxicity Inhalation LC50 : No known significant effects or critical hazards.

Likely Routes of Exposure : Not available

Skin Irritation : Slightly irritating to the skin. **Eye Irritation** : Moderately irritating to eyes.

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

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects. **Persistence and Degradability**: No known significant effects or critical hazards.

Bioaccumulative Potential: No known significant effects or critical hazards.

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

UN Proper Shipping Name: Not regulated by DOT. Regulated by IATA and IMDG as UN3082,

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

Marine Pollutant

Transport Hazard Class : Class 9 (IATA/IMDG)
UN Identification Number : UN3082 (IATA/IMDG)
Packaging Group : PG III (IATA/IMDG)



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Environmental Hazards : Marine Pollutant (IATA/IMDG only)

Transport in Bulk : Not regulated by DOT

Special Precautions for : None needed

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: 23-January-2015