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1. Identification

Product Name: ELE-MAX SULFUR COMPLETE SP

Synonyms: None

Product Use : Foliar Nutritional Soluble Powder

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 : Danger

Skin Irritation : Mild irritant (rabbit)

Eye Irritation : Severe irritant (rabbit)

Acute Toxicity Oral : LD50 (rat) >2,150 mg/kg

Acute Toxicity Dermal : LD50 (rabbit) >2,000 mg/kg

Hazard Categories: Eye irritation - 1; Skin irritation - 3; Inhalation toxicity - 4; Oral/Dermal

Toxicity - 5/5

Hazard Statement : Causes serious eye damage

May damage fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Harmful to aquatic life with long lasting effects

3. Composition / Information on Ingredients

Component

CAS Number

Weight %

Blend of plant nutrients derived from Magnesium Sulfate, Manganese Sulfate, Sodium Borate and Sodium Molybdate. Guaranteed Analysis:

Magnesium (Mg): 8.0%

Sulfur (S): 14.5% Boron (B): 5.0%

Manganese (Mn): 7.0%

Proprietary blend

100.00



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Molybdenum (Mo): 0.4% Chlorine (Cl), maximum: 1.00%

4. First Aid Measures

Eye: Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention

immediately.

Skin : Wash with soap and water. Continue to rinse for at least 10 minutes. Get medical

attention.

Inhalation: If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected

that fumes are still present, the rescuer should wear an appropriate air-purifying

respirator or self-contained breathing apparatus.

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

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

Indication of Immediate Medical Attention and Special Treatment Needed

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

5. Fire Fighting Measures

Extinguishing Media: Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the : No specific fire or explosion hazard. Decomposition products may include

Chemical carbon dioxide, carbon monoxide and metal oxide/oxides.

Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Promptly

isolate the scene by removing all persons from the vicinity of the incident if there

is a fire.

6. Accidental Release Measures

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

entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Protective Equipment: Chemical-resistant impervious gloves, tightly fitting goggles, appropriate footwear

and personal protective equipment for the body. Use air-purifying respirator if a risk assessment indicates it is necessary. Safety shower and eyewash should be

available nearby.

Emergency Procedures :

Methods and Materials for : Do not create dust. Do not discharge spilled product into drains or rivers. Collect

Containment and Cleanup spilled product and place in suitable container for proper disposal.

7. Handling and Storage



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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. Avoid exposure, especially during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material. Do

not reuse container.

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 and food and drink. Store locked up. Keep container tightly

closed and sealed until ready for use.

8. Exposure Controls / Personal Protection

TLV/PEL: Sulfuric acid, manganese: PEL Ceiling 5 mg/m3 (calculated as Mn)

Appropriate Engineering Controls : Local exhaust ventilation should be sufficient.

Personal Protective Equipment : Chemical-resistant impervious gloves, tightly fitting goggles, appropriate footwear

and personal protective equipment for the body. Use air-purifying respirator if a risk assessment indicates it is necessary. Safety shower and eyewash shoul

9. Physical and Chemical Properties

Odor/Appearance: White odorless powder.

Flash Point, oF : Not determined

Boiling Point, oF : Not determined

Melting Point(Freezing point), oC : Not determined Vapor Pressure, mm Hg @ 20 oC : Not determined

Vapor Density : Not determined

Solubility in Water : Soluble in cold water

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 oC : Not determined

Evaporation Rate(Butyl Acetate = : Not applicable

1)

Octanol/Water Partition : Not determined

Coefficient

pH: Not determined

Flammable Limits (approximate : Not determined

volume % in air)

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

10. Stability and Reactivity

Reactivity: No test data related to reactivity.



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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 : No specific data

11. Toxicological Information

Acute Toxicity (Oral LD50) : >2,150 mg/kg (rat)

Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit)

Acute Toxicity Inhalation LC50 : 2 mg/L (rat)

Likely Routes of Exposure : Eyes

Skin Irritation: No known significant effects or critical hazards.

Eye Irritation : Causes serious eye damage

Skin Sensitization: No known significant effects or critical hazards.

Carcinogenic: Not listed by IARC, NTP or OSHA.

Chronic Effects: No known significant effects or critical hazards.

Other Hazards: Reproductive toxicity - May damage fertilizer or the unborn child. Teratogen - May

damage the unborn child.

12. Ecological Information

Ecotoxicity: Harmful 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, IATA or IMDG.

Transport Hazard Class: None **UN Identification Number**: None



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Packaging Group: None

Environmental Hazards : No hazards known Transport in Bulk : No information found Special Precautions for : No information found

Transportation

Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item

68140, Sub 5, Class 50)

15. Regulatory Information

National Fire Protection:

Association Rating

Health: 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: Y Sudden Release of N Pressure:

Fire: N Reactive: N

16. Other Information

Data of Preparation/Revision : 12-February-2015