



# Safety Data Sheet

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## 1. Identification

**Product Name** : ELE-MAX MAGNESIUM FL 4-0-0  
**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  
**Skin Irritation** : Causes mild skin irritation.  
**Eye Irritation** : Causes serious eye irritation.  
**Acute Toxicity Oral** : LD50 >40,000 mg/kg (rat)  
**Acute Toxicity Dermal** : No known significant effects or critical hazards.

**Hazard Categories** : Eye Irritation - 2A; Skin Irritation - 3; Oral/Dermal/Inhalation Toxicity - 5/5/5

**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
May be harmful if inhaled  
Causes serious eye irritation  
Causes mild skin irritation

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of plant nutrients derived from Urea and Magnesium Hydroxide. Guaranteed Analysis: Total Nitrogen (N): 4.00% Magnesium (Mg): 20.00% Chlorine (Cl), maximum: 1.00%		100.00

## 4. First Aid Measures

**Eye** : Rinse 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 Attention and Special Treatment Needed** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Observe for 48 hours.

## 5. Fire Fighting Measures



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- Extinguishing Media** : Use extinguishing agent suitable for the surrounding fire.
- Specific Hazards Arising from the Chemical** : In a fire or if heated, a pressure increase will occur and the container may 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 equipment.

### 6. 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** : Safety shower, eyewash station, chemical-resistant apron, impervious apron and footwear. Use NIOSH-approved respirator if needed.
- Emergency Procedures** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods and Materials for Containment and Cleanup** : Stop leak if without risk. Move containers from spill area. Absorb spilled liquid with an inert dry material. Collect and place in appropriate waste disposal containers. Dispose in accordance with applicable regulations.

### 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 and face 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. Use appropriate containment to avoid environmental contamination.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
- Appropriate Engineering Controls** : Good general ventilation should be sufficient.
- Personal Protective Equipment** : Safety shower, eyewash station, chemical-resistant apron, impervious apron and footwear. Use NIOSH-approved respirator if needed.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Light brown 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** : 1.511
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined



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pH : 9.8  
Flammable Limits (approximate volume % in air) : Not applicable  
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 Products** : Under normal conditions of storage and use, hazardous decomposition 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** : Eyes  
**Skin Irritation** : No known significant effects or critical hazards.  
**Eye Irritation** : May cause eye irritation.  
**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** : No known significant effects or critical hazards.  
**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  
**Packaging Group** : None  
**Environmental Hazards** : None noted  
**Transport in Bulk** : No special considerations



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**Special Precautions for Transportation** : No special considerations  
**Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

### 15. Regulatory Information

**National Fire Protection Association Rating** :

Health: 0 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 Pressure: N  
Fire: N  
Reactive: N

### 16. Other Information

**Data of Preparation/Revision** : 18-March-2015