



# Safety Data Sheet

Report Date 05-Jun-17

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## 1. Identification

**Product Name** : ELE-MAX SULFUR LC 10-5-0 WITH 10% SULFUR  
**Synonyms** : None  
**Product Use** : Liquid Nutrient Blend for Foliar Feeding Crops  
**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** : Causes severe skin burns  
**Eye Irritation** : Causes serious eye damage  
**Acute Toxicity Oral** : May be harmful if swallowed  
**Acute Toxicity Dermal** : May be harmful in contact with skin

**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-1/1A; Corrosivity to Metals-1

**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
May be harmful if inhaled  
Causes severe skin burns and eye damage  
May be corrosive to metals

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from ammonium sulfate, urea, phosphoric acid, copper sulfate and disodium octaborate. NOTE: The chelating agent is EDTA (ethylenediaminetetraacetic acid).	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		10%
7.6% Ammoniacal Nitrogen		
2.4% Urea Nitrogen		
Available Phosphate (P2O5):		5%
Sulfur (S):		10%
Boron (B):		0.04%

## 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.



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**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 with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

**Indication of Immediate Medical Attention and Special Treatment Needed** : In the event of an adverse response, treatment should be directed toward control of the symptoms.

### 5. Fire Fighting Measures

**Extinguishing Media** : No flash point available. Not believed to be combustible. Use extinguishing media suitable for underlying cause of fire.

**Specific Hazards Arising from the Chemical** : May emit toxic and irritating fumes under fire conditions.

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

### 6. Accidental Release Measures

**Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.

**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.

**Emergency Procedures** : Dike spilled liquid to prevent spreading to soil, drains, waterways or sewers.  
**Methods and Materials for Containment and Cleanup** : Cover spilled liquid with inert absorbent, such as clay or sand. Scoop or shovel up absorbent and place in suitable containers for proper disposal.

### 7. Handling and Storage

**Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container. Corrosive to mild steel and aluminum and it is recommended that it be applied and stored in stainless steel, polypropylene or polyethylene. Aerial applications should not be made due to the potential for product to corrode or discolor aircraft aluminum.

**Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate. Corrosive to mild steel and aluminum. Store in stainless steel, polypropylene or polyethylene containers.

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : No TLV or PEL available for mixture.

**Appropriate Engineering Controls** : General and/or local exhaust should be 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.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Clear, pale green-blue liquid; vitamin like odor.

**Flash Point, °F** : No information found



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**Boiling Point, °F** : >212 Degrees F.  
**Melting Point(Freezing point), °C** : No information found  
**Vapor Pressure, mm Hg @ 20 °C** : Not determined  
**Vapor Density** : Not determined  
**Solubility in Water** : Soluble  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 1.289-1.309  
**Evaporation Rate(Butyl Acetate = 1)** : No information found  
**Octanol/Water Partition Coefficient** : No information found  
**pH** : <2.0  
**Flammable Limits (approximate volume % in air)** : No information found  
**Auto-ignition Temperature** : No information found  
**Decomposition temperature** : No information found

### 10. Stability and Reactivity

**Reactivity** : No information found  
**Chemical Stability** : Stable  
**Hazardous Decomposition Products** : May emit ammonia gas and phosphoric acid under fire conditions.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : Avoid contact with alkaline materials.  
**Incompatible Materials** : Alkaline materials

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : No LD50 available for mixture. May be harmful if swallowed.  
**Acute Toxicity (Dermal LD50)** : No LD50 available for mixture. May be harmful in contact with skin.  
**Acute Toxicity Inhalation LC50** : No LC50 available for mixture. May be harmful if inhaled.  
**Likely Routes of Exposure** : Skin, eyes  
**Skin Irritation** : Causes severe skin burns and eye damage.  
**Eye Irritation** : Causes serious eye damage.  
**Skin Sensitization** : No information found  
**Carcinogenic** : No information found  
**Chronic Effects** : No information found  
**Other Hazards** : No information found

### 12. Ecological Information

**Ecotoxicity** : No information found  
**Persistence and Degradability** : No information found  
**Bioaccumulative Potential** : No information found  
**Mobility in Soil** : No information found  
**Other Adverse Effects** : 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. (RCRA D002 due to pH <2.0)



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## 14. Transport Information

**UN Proper Shipping Name** : Corrosive Liquid, Acidic, Inorganic, n.o.s., (contains Phosphoric Acid)  
**Transport Hazard Class** : Corrosive (8)  
**UN Identification Number** : UN3264  
**Packaging Group** : PG III  
**Environmental Hazards** : Reportable Quantity (RQ), Sulfuric Acid > 2,364 gallons; RQ, Phosphoric Acid >5,694 gallons.  
**Transport in Bulk** : No information found  
**Special Precautions for Transportation** : Use ERG # 154. Do not ship by air; corrosive to aluminum.  
**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: Y  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

## 16. Other Information

**Data of Preparation/Revision** : 05-June-2017