



# Safety Data Sheet

Report Date 22-Mar-17

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## 1. Identification

**Product Name** : ELE-MAX NUTRIENT CONCENTRATE 11-8-5  
**Synonyms** : None  
**Product Use** : Inorganic liquid nutrient for foliar feeding  
**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** : Slightly irritating (rabbits)  
**Eye Irritation** : Mildly irritating in nonwashed eyes. Minimally irritating in washed eyes. (rabbits)  
**Acute Toxicity Oral** : LD50 >5,010 mg/kg (rats)  
**Acute Toxicity Dermal** : LD50 >2,020 mg/kg (rabbits)  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye irritation-2B; Skin irritation-3; Skin sensitization-1B  
**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  
May cause an allergic skin reaction

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from potassium hydroxide, ammonium phosphate, urea, sodium tetraborate, cobalt sulfate, ammonium molybdate, iron EDTA, copper EDTA, manganese EDTA and zinc EDTA. The chelating agent is EDTA (ethylenediaminetetraacetic acid)	Proprietary	100.00
Guaranteed Analysis:		
Total Nitrogen (N): 11.00%		
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ): 8.00%		
Soluble Potash (K <sub>2</sub> O): 5.00%		
Boron (B): 0.02%		
Cobalt (Co): 0.0005%		
Copper (Cu): 0.05%		
Iron (Fe): 0.10%		
Manganese (Mn): 0.05%		
Molybdenum (Mo): 0.0005%		
Zinc (Zn): 0.05%		
Chlorine (Cl), maximum: 1.00		

## 4. First Aid Measures



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**Eye** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor.

**Skin** : Remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice/attention.

**Inhalation** : Call a poison control center or doctor if you feel unwell.

**Ingestion** : Call a poison control center or doctor if you feel unwell. Rinse mouth.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically.

### 5. Fire Fighting Measures

**Extinguishing Media** : Use fire extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.

**Specific Hazards Arising from the Chemical** : This material is non-combustible. If heated, corrosive and toxic vapors/gases may be formed. Hazardous combustion products include ammonia and phosphorous oxides.

**Special Fire Fight Proc** : Use self-contained breathing apparatus in positive pressure mode with full face mask when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. Keep runoff out of water and sewers.

### 6. Accidental Release Measures

**Personal Precautions** : Avoid inhalation of vapors.

**Protective Equipment** : Chemical resistant and impervious clothes should be worn. Safety goggles must be worn at all times. Impervious apron and footwear.

**Emergency Procedures** : Do not discharge onto ground or into bodies of water. Prevent entry into drains.

**Methods and Materials for Containment and Cleanup** : Absorb with dry earth, clay, sand or other non-combustible material. Use a tool to scoop up soil or absorbed material and place into appropriately labeled waste container. Keep out of water ways.

### 7. Handling and Storage

**Precautions for Safe Handling** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Ensure there is access to eyewash and showers close to the workstation location.

**Conditions for Safe Storage** : Keep containers tightly closed and store in a cool, well-ventilated area. Keep away from heat and direct sunlight.

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : Not specified

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

**Personal Protective Equipment** : Chemical resistant and impervious clothes should be worn. Safety goggles must be worn at all times. Impervious apron and footwear.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Clear light to dark green liquid, vitamin odor.

**Flash Point, °F** : Not applicable

**Boiling Point, °F** : >100 Degrees C.



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Melting Point(Freezing point), °C : <35 Degrees F.  
Vapor Pressure, mm Hg @ 20 °C : 18 MM Hg @ 23 Degrees C.  
Vapor Density : 0.80 g/L  
Solubility in Water : 100%  
Molecular Formula : Not applicable, formulated mixture.  
Density, g/mL @ 25 °C : 1.205-1.225  
Evaporation Rate(Butyl Acetate = 1) : Not determined  
Octanol/Water Partition Coefficient : Not applicable  
pH : 5.8-7.0 (pure)  
Flammable Limits (approximate volume % in air) : Not applicable  
Auto-ignition Temperature : Not applicable  
Decomposition temperature : >200 Degrees C.

### 10. Stability and Reactivity

Reactivity : None  
Chemical Stability : Stable  
Hazardous Decomposition Products : Ammonia gas and phosphorous oxides may be produced under fire conditions.  
Hazardous Polymerization : Will not occur  
Conditions to Avoid : None known  
Incompatible Materials : None known

### 11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,010 mg/kg (rat)  
Acute Toxicity (Dermal LD50) : >2,010 mg/kg (rat)  
Acute Toxicity Inhalation LC50 : No information found  
Likely Routes of Exposure : Skin, eyes, inhalation  
Skin Irritation : Slightly irritating  
Eye Irritation : Mildly to minimally irritating (rabbit)  
Skin Sensitization : Sensitizer (0.100% Buehler Test)  
Carcinogenic : None currently known.  
Chronic Effects : None currently known.  
Other Hazards : None currently known.

### 12. Ecological Information

Ecotoxicity : No data available  
Persistence and Degradability : No data available  
Bioaccumulative Potential : No data available  
Mobility in Soil : No data available  
Other Adverse Effects : Keep out of water ways.

### 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.



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## 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  
**Transport in Bulk** : None  
**Special Precautions for Transportation** : None  
**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 Pressure: N  
Fire: N  
Reactive: N

## 16. Other Information

**Data of Preparation/Revision** : 22-March-2017