



# Safety Data Sheet

Report Date 27-Mar-15

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## 1. Identification

**Product Name** : ELE-MAX FOLIAR PHOSPHITE 0-28-26  
**Synonyms** : None  
**Product Use** : Inorganic plant nutrients  
**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 (no pictogram required)  
**Skin Irritation** : Slightly irritating to the skin  
**Eye Irritation** : Mildly irritating to the eye  
**Acute Toxicity Oral** : LD50 > 5,000 mg/kg (rats)  
**Acute Toxicity Dermal** : LD50 > 5,000 mg/kg (rats)

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

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

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from potassium hydroxide (CAS No. 1310-58-3) and phosphorous acid (CAS No. 13598-36-2)	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Phosphoric Acid (P2O5):		28.00
Soluble Potash (K2O):		26.00

## 4. First Aid Measures

**Eye** : Flush eyes with water for 15 minutes, holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Obtain immediate medical attention.

**Skin** : Remove contaminated clothing and wash skin thoroughly with soap and water. Obtain medical attention if irritation develops. Launder clothing before reuse.

**Inhalation** : Remove person to fresh air. Obtain medical attention if irritation develops.

**Ingestion** : Call a poison control center or doctor immediately. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically. Ingestion may result in irritation of the digestive tract.

## 5. Fire Fighting Measures

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



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**Specific Hazards Arising from the Chemical** : On burning, may release toxic and corrosive gases/vapors (phosphorus oxides, potassium oxides).  
**Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective equipment. Use water spray to keep fire-exposed containers cool.

### 6. Accidental Release Measures

**Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.  
**Protective Equipment** : Impervious gloves, splashproof goggles or face shield, impervious apron and footwear. Eyewash station should be available in work area. Use NIOSH-approved, mist-type canister respirator if mist is present.  
**Emergency Procedures** : Do not contaminate water supplies with spilled material. Dike spill to prevent spreading. Spills may be reported to local, state and Federal authorities.  
**Methods and Materials for Containment and Cleanup** : Contain spill and reuse material, if uncontaminated. If contaminated, absorb material with an absorbent, such as clay or sand, and place in plastic containers for proper disposal.

### 7. Handling and Storage

**Precautions for Safe Handling** : Keep container tightly closed. Do not contaminate water supplies, lakes, streams, ponds, drains or sewers by cleaning of equipment, disposal of rinse water, or spillage of product.  
**Conditions for Safe Storage** : Keep out of reach of children. May be stored in unheated areas but keep from freezing. Store at temperatures above 45 Degrees F. at all times. Avoid high temperatures.

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : Not determined for mixture.  
**Appropriate Engineering Controls** : Local exhaust normally sufficient.  
**Personal Protective Equipment** : Impervious gloves, splashproof goggles or face shield, impervious apron and footwear. Eyewash station should be available in work area. Use NIOSH-approved, mist-type canister respirator if mist is present.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Clear colorless to amber liquid/characteristic  
**Flash Point, °F** : Not flammable  
**Boiling Point, °F** : +/- 105 Degrees C.  
**Melting Point(Freezing point), °C** : < 5 Degrees C.  
**Vapor Pressure, mm Hg @ 20 °C** : 23 hPa (as water)  
**Vapor Density** : No data available  
**Solubility in Water** : Soluble  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 1.440-1.520  
**Evaporation Rate(Butyl Acetate = 1)** : No information found  
**Octanol/Water Partition Coefficient** : No information found  
**pH** : 5.8-8.0  
**Flammable Limits (approximate volume % in air)** : Not applicable  
**Auto-ignition Temperature** : Not applicable  
**Decomposition temperature** : 180 Degrees C.



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### 10. Stability and Reactivity

- Reactivity** : See Hazardous Decomposition Products.  
**Chemical Stability** : Stable  
**Hazardous Decomposition Products** : Toxic, corrosive gases/vapors, such as phosphine and phosphorus oxides, may be released if burned. Reaction is accelerated if exposed to (some) acids.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : Avoid temperatures below -10 Degrees C. Avoid high temperatures. Keep away from oxidizing agents and strong acids. Keep away from metals and metal powders.  
**Incompatible Materials** : Keep away from iron, metal and lead.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,000 mg/kg (rat)  
**Acute Toxicity (Dermal LD50)** : >5,000 mg/kg (rat)  
**Acute Toxicity Inhalation LC50** : >2.10 mg/L (rat) (Vapor Limit)  
**Likely Routes of Exposure** : Skin and eyes (contact)  
**Skin Irritation** : Slightly irritating to the skin.  
**Eye Irritation** : Mildly irritating to the eye.  
**Skin Sensitization** : Not a contact sensitizer.  
**Carcinogenic** : None currently known.  
**Chronic Effects** : None currently known, where the product is used under conditions of good industrial hygiene.  
**Other Hazards** : None currently known.

### 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.

### 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** : No information found  
**Transport in Bulk** : No information found  
**Special Precautions for Transportation** : No information found



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**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: 1  
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** : 27-March-2015