

# ELE-MAX PHOS-K-MAG LS 0-29-5

Helena Chemical Company  
 PH: 901-761-0050  
 CHEMTREC: 800-424-9300  
 Effective Date: 16-MAR-2007  
 Product: ELE-MAX PHOS-K-MAG LS 0-29-5

## I. IDENTIFICATION

**Chemical Name:** Foliar Nutritional Liquid Solution  
**Chemical Family:** Inorganic Nutrients  
**Formula:** Not applicable, formulated mixture.  
**Synonyms:** None  
**CAS Number:** Not applicable, formulated mixture.  
**EPA Number:** None required

## II. PHYSICAL DATA

**Boiling Point:** >100 Degrees C.  
**Freezing Point:** -20 Degrees C.  
**Spec Gravity:** 1.446 gms/cc  
**Vapor Pressure:** Not determined  
**Vapor Density:** Not determined  
**Solubility:** Miscible  
**Volatiles:** Not determined  
**Evaporation:** Not determined  
**Melting Point:** Not applicable  
**Appearance:** Clear red liquid with low odor.

## III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary liquid concentrate blend (derived from phosphoric acid, magnesium phosphate, potassium chloride and potassium phosphate).		100.00	N/E	Product is acidic. Skin & eye irritant.
TYPICAL COMPOSITION: Available Phosphate (P2O5): 29.00% Soluble Potash (K2O): 5.00% Total Magnesium (Mg): 4.10% Chlorine (Cl), maximum: 3.00%				

## IV. FIRE AND EXPLOSION HAZARD

**Flash Point:** Non-combustible  
**Autoignition Temp:** Not applicable  
**Flammable Limit:** Not applicable  
**Extinguishing Media:** Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.  
**Special Fire Fight Proc:** Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers.  
**Fire and Expl Hazard:** May produce phosphoric pentoxide under fire conditions.

## V. HEALTH HAZARD

**Carcinogen Information:** None currently known.  
**ACUTE EFFECTS OF OVER EXPOSURE**  
**Swallowing:** May be harmful if ingested due to acidic nature of this material. Not toxicologically hazardous.  
**Skin Absorption:** No data available.  
**Inhalation:** Inhalation of spray mist may cause irritation of the upper respiratory tract, nose and throat.  
**Skin contact:** Product may be irritating to skin with contact.  
**Eye Contact:** May produce severe eye irritation due to the acidic nature of this material.  
**Chronic Effects:** None currently known.  
**Other Hazard:** None currently known.  
**EMERGENCY AND FIRST AID PROCEDURES**  
**Swallowing:** If conscious, drink 1-2 glasses of milk or water. Do not induce vomiting. Obtain immediate medical attention.  
**Skin:** Immediately wash affected area with soap and water. Seek medical attention if irritation develops. Launder contaminated clothing before reuse.  
**Inhalation:** Move to fresh air. If irritation persists, seek medical attention.  
**Eyes:** Immediately flush eyes with water, continuing for at least 15 minutes, while holding the eyelids open. Obtain immediate medical attention.  
**Notes to Physician:** In the event of an adverse response, treatment should be directed toward the clinical condition of the patient. Ingestion may result in irritation of the digestive tract due to the acidic nature (pH = 1) of this product.

## VI. REACTIVITY

**Stability:** Stable  
**Conditions to Avoid:** Avoid extremes of temperature.  
**Polymerization:** Will Not Occur  
**Conditions to Avoid:** None currently known.  
**Incompatibility material:** Avoid contact with caustic soda, chlorates, nitrates, calcium carbide, etc. and certain metals (mild steel, aluminum alloy, brass, galvanized metals).

**Hazardous Combustion:** Will react with some metals to evolve hydrogen gas, giving rise to potentially flammable and explosive mixtures.

## VII. SPILL OR LEAK PROCEDURES

**Spill or Leak Proc:** Contain product and reuse if uncontaminated. If contaminated, absorb with an inert material, such as clay, sand or sawdust. Collect and place in a non-reactive metal or plastic container for proper disposal. Do not contaminate water supplies with spilled product.

**Waste Disposal Method:** This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

## VIII. SPECIAL PROTECTION INFORMATION

**Respiration:** If mist is present, use a NIOSH-approved respirator.

**Ventilation:** Local exhaust normally sufficient.

**Gloves:** Impervious gloves.

**Eyes:** Splashproof goggles.

**Other:** Eyewash station, impervious apron and footwear.

## IX. SPECIAL PRECAUTIONS

**Special precaution:** Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or ponds. Store in original containers away from excessive heat. Do not allow to freeze. Store away from bases (such as caustic soda), chlorates and nitrates.  
**Other precaution:** Do not use the following metals for containers, piping or fittings: mild steel, aluminum alloy, brass, tin, or galvanized materials. When disposed as a liquid, this material must be classified as a D002 (corrosivity) RCRA hazardous waste.

## X. SHIPPING INFORMATION

**Shipping name:** Not regulated for transport by DOT (highway) or IMDG (water). See Transportation Note.

**Hazard Class:** None

**Identification No:** None

**Labels Required:** None required

**Placarding:** None

**Freight Class:** Compound, Fertilizer (Manufactured Fertilizer), Liquid, NOIBN

Chemical Name	Equivalent R.Q.
Phosphoric Acid	5,000 lbs. (8,100 gallons)

## TRANSPORTATION NOTE:

If transported by air, ship as:  
 Corrosive Liquid, n.o.s. (Phosphoric Acid), 8, UN1760, PG III "ERG # 154"

## XI. GENERAL PRODUCT INFORMATION

**National Fire Protection Association Rating:**  
 (Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**Health:** 2

**Fire:** 1

**Reactivity:** 1

**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

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