



Safety Data Sheet

Report Date 29-May-15

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1. Identification

Product Name : ELE-MAX PHOS-K-MAG LC 0-29-5 (CORROSIVE)
Synonyms : None
Product Use : Foliar Nutritional Liquid Concentrate
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 burns.
Eye Irritation : Causes serious eye damage.
Acute Toxicity Oral : LD50 (rat) 2,600 mg/kg
Acute Toxicity Dermal : No information found

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

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from phosphoric acid, magnesium phosphate, potassium chloride and potassium phosphate.		100.00
Available Phosphate (P2O5):		29.00%
Soluble Potash (K2O):		5.00%
Magnesium (Mg):		4.10%
Chlorine (Cl), max:		3.00%

4. First Aid Measures

Eye : Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.

Skin : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Chemical burns must be treated promptly by a physician.

Inhalation : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

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.



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Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. Contact poison control center immediately if large quantities have been ingested or inhaled.

5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Decomposition products include phosphorus oxides, halogenated compounds, metal oxide/oxides. Avoid breathing dusts, vapors or fumes from burning materials.
- Special Fire Fight Proc** : Wear appropriate protective equipment and self-contained breathing apparatus with a full facepiece operated in positive pressure mode.

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** : Tightly fitting goggles, chemical-resistant impervious gloves and appropriate footwear. Emergency shower and eyewash station should be available nearby. Use an air-purifying respirator if risk assessment indicates it is needed.
- Emergency Procedures** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.
- Methods and Materials for Containment and Cleanup** : Stop leak if without risk. Move containers from spill area. Absorb with inert dry material, collect and place in an appropriate waste disposal container. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and Storage

- Precautions for Safe Handling** :
- Conditions for Safe Storage** :

8. Exposure Controls / Personal Protection

- TLV/PEL** : 1 mg/m³ (TLV-TWA for phosphoric acid)
- Appropriate Engineering Controls** : Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Personal Protective Equipment** : Tightly fitting goggles, chemical-resistant impervious gloves and appropriate footwear. Emergency shower and eyewash station should be available nearby. Use an air-purifying respirator if risk assessment indicates it is needed.

9. Physical and Chemical Properties

- Odor/Appearance** : Red liquid; odor is undetermined.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : <-20 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined



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Vapor Density : No information found
Solubility in Water : Not determined
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.479
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : Not determined
pH : 1
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not determined
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : No specific test data available.
Chemical Stability : Stable
Hazardous Decomposition Products : Thermal decomposition products may include phosphorus oxides, halogenated compounds and metal oxide/oxides.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contaminated by any source including metals, dust and organic materials.
Incompatible Materials : Attacks many metals, producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reacts/incompatible with metals/alkalis.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 2,600 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 noted. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 noted. May be harmful if inhaled.
Likely Routes of Exposure : Eyes, skin.
Skin Irritation : Causes severe burns.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : No data available
Carcinogenic : None currently known.
Chronic Effects : No information found
Other Hazards : No information found

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.



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14. Transport Information

UN Proper Shipping Name : Corrosive Liquid, Acidic, Inorganic, n.o.s. (Phosphoric Acid)
Transport Hazard Class : Corrosive (8)
UN Identification Number : UN3264
Packaging Group : PG III
Environmental Hazards : None noted
Transport in Bulk : No requirements noted
Special Precautions for Transportation : May be corrosive to metals.
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 3 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: Y

16. Other Information

Data of Preparation/Revision : 29-May-2015