

Material Safety Data Sheet

Effective Date: 28-OCT-2011

Product: ELE-MAX PHOS-K-MAG LC 0-29-5 (CORROSIVE)

I. IDENTIFICATION

Chemical Name: Foliar Nutritional Liquid Concentrate
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: <0 Degrees C.
Spec Gravity: 1.479 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Miscible
Volatiles: Not determined
Evaporation: Not determined
Melting Point: >0 Degrees C.
Appearance: Clear red liquid with low odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary liquid concentrate blend of plant nutrients derived from phosphoric acid (CAS # 7664-38-2; 5%), magnesium phosphate, potassium chloride, and potassium phosphate. GUARANTEED ANALYSIS: Available Phosphate (P2O5): 29.0% Soluble Potash (K2O): 5.0% Total Magnesium (Mg): 4.1% Chlorine (Cl), maximum: 3.0%		100.00	N/E	Acidic; skin & eye irritant.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not determined
Flammable Limit: Not applicable

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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: Emits toxic fumes under fire conditions.

V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: May be harmful if ingested due to the acidic nature of this product. Not toxicologically hazardous.
Skin Absorption: No data available
Inhalation: No data available. Inhalation of spray mists may cause irritation of the throat, nose and respiratory tract.
Skin contact: There may be mild irritation at the site of contact.
Eye Contact: May produce eye irritation due to the acidic nature of this product.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: If conscious, drink 1 to 2 glasses of water or milk. Do not induce vomiting. Consult a physician immediately.
Skin: Immediately wash affected area with plenty of 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.

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VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Avoid excessive heat.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Avoid contact with strong oxidizing agents,
bases and metals.
Hazardous Combustion: May 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 non-reactive metal or
plastic containers 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: Use a NIOSH-approved respirator with
particulate filter.
Ventilation: Local exhaust normally sufficient.
Gloves: Impervious gloves.
Eyes: Safety glasses with side shields or goggles.
Other: Eyewash station, emergency shower, 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,
ponds or drains with this product. Store in
original containers away from excessive heat.
Do not allow to freeze.

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Other precaution: Store away from bases, e.g., caustic soda, chlorates and nitrates. Do not use the following metals for containers, piping or fittings: mild steel, aluminum alloy, brass, tin, or galvanized metals. When disposed of as a liquid, this material must be classified as a D002 RCRA hazardous waste for corrosivity (pH=1).

X. SHIPPING INFORMATION

Shipping name: UN3264, Corrosive Liquid, Acidic, Inorganic, n.o.s. (Phosphoric Acid), 8, PG III "ERG # 154"

Hazard Class: Corrosive (8)

Identification No: UN3264

Labels Required: Corrosive (8)

Placarding: Corrosive (8)

Freight Class: Compound, Fertilizer (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

Chemical Name	Equivalent R.Q.
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Phosphoric Acid (CAS No. 7664-38-2)	5,000 lbs/8,065 gallons

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
Sudden Release of pressure: N
Reactive: N

Delayed (Chronic) Health: N
Fire: N

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