



Safety Data Sheet

Report Date 27-May-15

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1. Identification

Product Name : ELE-MAX SOIL PHOSPHITE 0-40-0
Synonyms : None
Product Use : Soil Nutrient
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 skin burns.
Eye Irritation : Causes serious eye irritation.
Acute Toxicity Oral : Harmful if swallowed.
Acute Toxicity Dermal : May be harmful in contact with skin.

Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin-2A/1A; Corrosive-1; Respiratory Irritation-3

Hazard Statement : 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
May cause respiratory irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend derived from phosphorus acid.		100.00
GUARANTEED ANALYSIS:		
Total Phosphoric Acid (P2O5):		40.00%

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. Very acidic liquid.

5. Fire Fighting Measures



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- Extinguishing Media** : Non-combustible liquid. Use extinguishing media for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Product may produce hydrogen gas if in contact with certain metals (see Section VI.).
- 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** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area. Use a NIOSH-approved mist-type cartridge respirator if mist is present.
- Emergency Procedures** : Contain product to prevent spreading to soil, waterways or drains.
- Methods and Materials for Containment and Cleanup** : Collect 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 out of reach of children and livestock. Keep container tightly closed. Do not allow water to be introduced to the contents of this container. Do not contaminate water sources by cleaning of equipment or disposal of spray waste.
- Conditions for Safe Storage** : Keep in a cool, dry chemical storage area. Store away from alkali, chlorates and nitrates.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No information found
- Appropriate Engineering Controls** : Local exhaust normally sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area. Use a NIOSH-approved mist-type cartridge respirator if mist is present.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear yellow/green liquid, low odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : 212 Degrees F.
- Melting Point(Freezing point), °C** : <-15 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not established
- Vapor Density** : Not established
- Solubility in Water** : Miscible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.240 to 1.270
- Evaporation Rate(Butyl Acetate = 1)** : Not established
- Octanol/Water Partition Coefficient** : No information found
- pH** : 1.0 to 1.3
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not applicable



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Decomposition temperature : No information found

10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition Products** : Will react with metals (see below) with evolution of hydrogen giving rise to potentially flammable and explosive mixtures.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Extremes of temperature.
- Incompatible Materials** : Caustic soda, chlorates, nitrates, calcium carbide, etc., mild steel, aluminum alloy, brass, tin, and galvanized material.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 1,895 mg/kg (rat); swallowing can result in nausea, vomiting, diarrhea and abdominal pain.
- Acute Toxicity (Dermal LD50)** : No information found. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No LC50 available. Breathing in mists or aerosols may produce respiratory irritation.
- Likely Routes of Exposure** : Skin, eyes, ingestion, inhalation
- Skin Irritation** : Contact with skin will result in severe irritation. Corrosive to skin; may cause skin burns.
- Eye Irritation** : A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
- Skin Sensitization** : Not listed as a 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** : Corrosive Liquid, n.o.s. (contains Phosphorous Acid)
- Transport Hazard Class** : Corrosive (8)
- UN Identification Number** : UN 1760
- Packaging Group** : PG III
- Environmental Hazards** : No information found



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Transport in Bulk : No information found
Special Precautions for Transportation : No information found
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: 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 : 27-May-2015