



Safety Data Sheet

Report Date 06-Dec-16

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1. Identification

Product Name : ELE-MAX HI PHOS LC 8-30-2
Synonyms : None
Product Use : Inorganic Fertilizer
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
Skin Irritation : May cause mild irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : LD50 >1,000 mg/kg (rat)
Acute Toxicity Dermal : No LD50 data available

Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-2B/3

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		8.00
Available Phosphate (P2O5):		30.00
Soluble Potash (K2O):		2.00
Boron (B):		0.02
Copper (Cu):		0.05
Iron (Fe):		0.10
Manganese (Mn):		0.05
Zinc (Zn):		0.05
Zinc (Zn):		0.05
Chlorine (Cl), not more than 0.04%		
Blend derived from ammonium phosphate, potassium phosphate, iron HEDTA, copper EDTA, manganese EDTA, zinc EDTA, sodium borate.	Proprietary	100.00

4. First Aid Measures

Eye : Rinse eyes cautiously with water for at least 15 minutes. Remove contact lenses, if present, after first 5 minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin : Take off all contaminated clothing immediately. Rinse skin with water. Get medical attention if irritation develops or persists. Launder contaminated clothing before reuse.



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Inhalation : Move person to fresh air. If 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 treatment advice.

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.

5. Fire Fighting Measures

Extinguishing Media : Not a flammable liquid. Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the Chemical : May generate toxic and irritating fumes under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. 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 apron and footwear. Emergency shower and eyewash should be available in work area. Use NIOSH-approved respirator with cartridge for ammonia gas if vapors are present.

Emergency Procedures : Do not contaminate water supplies, lakes, streams or ponds.

Methods and Materials for Containment and Cleanup : Dike spilled product to prevent spreading. Cover with inert absorbent, collect and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep out of reach of children. Do not contaminate water supplies, lakes, streams, ponds or drains. Keep away from hypochlorite bleach, chlorine sanitizers or chlorinated cleaners as chlorine gas may be liberated.

Conditions for Safe Storage : Do not store with food, feed or other material to be used or consumed by humans or animals.

8. Exposure Controls / Personal Protection

TLV/PEL : Not established for mixture.

Appropriate Engineering Controls : Local exhaust should be sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious apron and footwear. Emergency shower and eyewash should be available in work area. Use NIOSH-approved respirator with cartridge for ammonia gas if vapors are present.

9. Physical and Chemical Properties

Odor/Appearance : Clear green liquid; ammonia odor.

Flash Point, °F : Not flammable

Boiling Point, °F : >212 Degrees F.

Melting Point(Freezing point), °C : <32 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : Not established

Vapor Density : Not established



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Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.353-1.373
Evaporation Rate(Butyl Acetate = 1) : Not established
Octanol/Water Partition Coefficient : No information found
pH : 5.5 to 6.5
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May emit ammonia, oxides of nitrogen, phosphoric acid, and oxides of phosphorus.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid extreme heat.
Incompatible Materials : Avoid strong bases, sodium hypochlorite.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >1,000 mg/kg (rat). Harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 data available. May be harmful if swallowed.
Acute Toxicity Inhalation LC50 : No LC50 data available. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes, ingestion, inhalation.
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : No information found.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No information found
Other Hazards : No information found

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



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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 : None
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: 1 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 : 06-December-2016