



Safety Data Sheet

Report Date 25-Jan-15

Page 1 of 4

1. Identification

Product Name : ELE-MAX IRON PHOS SP 12-13-0
Synonyms : None
Product Use : Foliar Nutritional Soluble Powder
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 : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Acute Toxicity Oral : LD50 >2,000 mg/kg (rat)
Acute Toxicity Dermal : No data available

Hazard Categories : Eye - Category 2A; Skin - Category 2; Oral Toxicity - Category 4; Dermal Toxicity - Category 5

Hazard Statement : Causes serious eye irritation
Causes skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of Ammonium Phosphate, Ammonium Salt, Ferric Citrate.		100.00
Guaranteed Analysis:		
Total Nitrogen (N): 12.0%		
Available Phosphate (P2O5): 13.0%		
Iron (Fe): 9.0%		

4. First Aid Measures

Eye : Rinse eyes with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin : Wash with soap and water. Get medical attention if irritation develops.

Inhalation : If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. Contact a poison control center or doctor immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Observe for 48 hours.

5. Fire Fighting Measures

Extinguishing Media : Use an extinguishing agent suitable for the surrounding fire.



Safety Data Sheet

Report Date 25-Jan-15

Page 2 of 4

Specific Hazards Arising from the Chemical : No specific fire or explosion hazard.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : No action shall be taken involving any person risk or without suitable training. Evacuate surrounding areas.
Protective Equipment : Chemical-resistant gloves, splashproof goggles, impervious apron and footwear.
Emergency Procedures : Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.
Methods and Materials for Containment and Cleanup : Do not contaminate water supplies, lakes, streams or ponds. Collect spilled product and reuse if uncontaminated. If contaminated, place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Eating, drinking or smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering areas. Do not ingest. Avoid contact with eyes, skin and clothing.
Conditions for Safe Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

TLV/PEL : Not specified.
Appropriate Engineering Controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal Protective Equipment : Chemical-resistant gloves, splashproof goggles, impervious apron and footwear.

9. Physical and Chemical Properties

Odor/Appearance : Dark red solid (powder) with undetermined odor.
Flash Point, °F : Not determined
Boiling Point, °F : Not applicable
Melting Point(Freezing point), °C : Not applicable
Vapor Pressure, mm Hg @ 20 °C : Not applicable
Vapor Density : Not applicable
Solubility in Water : Not determined.
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : Not determined
Evaporation Rate(Butyl Acetate = 1) : Not applicable
Octanol/Water Partition Coefficient : Not determined
pH : Not determined
Flammable Limits (approximate volume % in air) : Not determined



Safety Data Sheet

Report
Date 25-Jan-15

Page 3 of 4

Auto-ignition Temperature : Not determined
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : No test data related to reactivity available.
Chemical Stability : Stable
Hazardous Decomposition Products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous Polymerization : Will not occur.
Conditions to Avoid : Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible Materials : No specific data.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >2,000 mg/kg (rat) for 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium iron(3+)salt(1:?:?)
Acute Toxicity (Dermal LD50) : No known significant effects or critical hazards.
Acute Toxicity Inhalation LC50 : No known significant effects or critical hazards.
Likely Routes of Exposure : Eyes, skin, ingestion.
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : No known significant effects or critical hazards.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

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.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT, IATA or IMDG.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : None currently known.
Transport in Bulk : No special considerations.
Special Precautions for Transportation : No special considerations.



Safety Data Sheet

Report Date 25-Jan-15

Page 4 of 4

Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item 68140, Sub 5, Class 50)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 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 : 23-January-2015