

Material Safety Data Sheet

Effective Date: 22-NOV-2011
Product: ELE-MAX IRON PHOS SP 12-13-0

I. IDENTIFICATION

Chemical Name: Iron+Nitrogen+Phosphorus
Chemical Family: Foliar Nutritional Soluble Powder
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: Not applicable
Freezing Point: Not applicable
Spec Gravity: Not determined
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Solubility: Soluble
Volatiles: Not determined
Evaporation: Not applicable
Melting Point: Not determined
Appearance: Brown powder with no odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Formulated blend of plant nutrients derived from Ammonium Phosphate, Ammonium Sulfate and Ferric Citrate.		100.00	N/E	Skin & eye irritant.

GUARANTEED ANALYSIS:
Total Nitrogen (N): 12.0%
12% Ammoniacal Nitrogen
Available Phosphate (P2O5): 13.0%
Iron (Fe): 9.0%

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not determined
Autoignition Temp: Not determined
Flammable Limit: Not determined
Extinguishing Media: Use extinguishing media suitable for underlying cause of fire.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing.

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Fire and Expl Hazard: Emits toxic fumes under fire conditions.

V. HEALTH HAZARD

Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Irritation of the throat may occur ingested.
Skin Absorption: No hazard anticipated.
Inhalation: Inhalation of powder may cause irritation of the throat with a feeling of tightness in the chest.
Skin contact: Mild irritation may occur at the site of skin contact.
Eye Contact: Eye contact may cause irritation and redness.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Wash out mouth with water. Seek medical attention.
Skin: Immediately wash with plenty of soap and water. Seek medical attention if irritation persists.
Inhalation: Move to fresh air. Seek medical attention.
Eyes: Flush the eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.
Notes to Physician: In the event of adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Avoid exposure to heat.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Avoid contact with strong oxidizing agents or strong acids.
Hazardous Combustion: Emits toxic fumes under fire conditions.

VII. SPILL OR LEAK PROCEDURES

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Spill or Leak Proc: Do not contaminate water supplies, lakes, streams or ponds. Collect spill product and reuse if uncontaminated. If contaminated, place in suitable containers for proper disposal.

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 air-purifying respirator with particulate filter.

Ventilation: General and/or local exhaust should be sufficient.

Gloves: Protective gloves.

Eyes: Safety glasses.

Other: Eyewash station.

IX. SPECIAL PRECAUTIONS

Special precaution: Avoid the formation or spreading of dust in the air. Store in a cool, well-ventilated area. Do not contaminate water supplies, lakes, streams or ponds.

Other precaution: None currently known.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT, IATA or IMDG.

Hazard Class: None

Identification No: None

Labels Required: None required

Placarding: None

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

Chemical Name ----- Equivalent R.Q. -----

Not applicable ----- Not applicable -----

XI. GENERAL PRODUCT INFORMATION

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1 Fire: 0 Reactivity: 0

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

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responsibility. It is offered solely for your consideration, investigation
and verification.