



Safety Data Sheet

Report Date 06-Jun-17

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1. Identification

Product Name : ELE-MAX FOLIAR PHOSPHITE 4-0-20
Synonyms : None
Product Use : Foliar 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 : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Acute Toxicity Oral : Excessive ingestion may cause irritation of the digestive tract.
Acute Toxicity Dermal : No hazard expected.

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2A; Skin Irritation - 2

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from Urea, Potassium Hydroxide and Phosphorus Acid.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		4.00%
4.00% Urea Nitrogen		
Available Phosphate (P2O5):		0.00%
30% Total Phosphorus (as P)		
Soluble Potash (K2O):		20.00%

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. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.



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Indication of Immediate Medical Attention and Special Treatment Needed : Treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Product may produce phosphoric pentoxide under fire conditions. May produce hydrogen gas if in contact with certain metals, such as mild steel, aluminum alloy, brass, tin and galvanized metals.
- 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. If mist is present, use a NIOSH-approved mist-type canister respirator. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike spilled product to prevent spreading. Do not contaminate water supplies, lakes, streams, ponds or drains.
- Methods and Materials for Containment and Cleanup** : Contain and collect spilled product. 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 locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Protect from frost. Store at temperatures above 32 Degrees F.

8. Exposure Controls / Personal Protection

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

9. Physical and Chemical Properties

- Odor/Appearance** : Clear colorless 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** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.



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Density, g/mL @ 25 °C : 1.435-1.455
Evaporation Rate(Butyl Acetate = 1) : Not established
Octanol/Water Partition Coefficient : No information found
pH : 4.8 to 6.0
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

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

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Excessive ingestion may cause irritation of the digestive tract.
Acute Toxicity (Dermal LD50) : No LD50 available.
Acute Toxicity Inhalation LC50 : No LC50 available. Inhalation of spray mist may produce upper respiratory tract irritation.
Likely Routes of Exposure : Skin, eyes, ingestion, inhalation
Skin Irritation : May cause skin irritation.
Eye Irritation : May cause eye irritation.
Skin Sensitization : No information found
Carcinogenic : None currently known.
Chronic Effects : No information found
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



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UN Proper Shipping Name : Not regulated by DOT (highway), IMDG (water), or IATA (air).
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 : 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 : 06-June-2017