



Safety Data Sheet

Report Date 13-Sep-17

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1. Identification

Product Name : ELE-MAX SUPER FOLIAR PHOSPHITE 6-40-16
Synonyms : None
Product Use : Concentrated liquid solution of N, P, K
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 (no symbol)
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : May be harmful if swallowed.
Acute Toxicity Dermal : May be harmful in contact with skin.

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

Hazard Statement : May be 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 %
Blend of plant nutrients derived from ammonium phosphite and potassium phosphite.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		6.00%
Available Phosphoric Acid (P2O5):		40.00%
Soluble Potash (K2O):		16.00%

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.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling.

5. Fire Fighting Measures



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- Extinguishing Media** : Non-combustible. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical : May produce phosphoric pentoxide or oxides of nitrogen 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 gloves, impervious apron and footwear. Use NIOSH-approved respirator if needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Contain spilled liquid and reuse material if uncontaminated. Do not contaminate water supplies, lakes, streams or ponds.
Methods and Materials for Containment and Cleanup : If contaminated, use an absorbent such as clay or sand. Then, sweep up 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 into the contents of this container. Do not contaminate water sources by cleaning of equipment or disposal of spray waste.
Conditions for Safe Storage : Store in a cool, dry storage area. Protect from frost. Store at temperatures above 32 Degrees F.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established for this mixture.
Appropriate Engineering Controls : Local exhaust is normally sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator if needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear colorless liquid with low odor.
Flash Point, °F : Not flammable
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 : 1.435-1.485 (12.176 lbs/gal)
Evaporation Rate(Butyl Acetate = 1) : Not established
Octanol/Water Partition Coefficient : No information found
pH : 5.9 to 6.4 (pure)
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : No information found



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10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition** : May react with some metals to evolve hydrogen, giving rise to potentially flammable or explosive mixtures.
- Products** : flammable or explosive mixtures.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid extremes of temperature.
- Incompatible Materials** : Incompatible with caustic soda, chlorates, nitrates, calcium chloride, etc. Avoid mild steel, aluminum alloys, brass, tin or galvanized metals.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : No LD50 available. May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : No LD50 available. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No LC50 available. May be harmful if inhaled.
- Likely Routes of Exposure** : Skin and eyes
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : Not listed
- 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

- 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)



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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 : 13-September-2017