



Safety Data Sheet

Report Date 25-Jan-15

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1. Identification

Product Name : ELE-MAX CALCIUM FL 4-0-0
Synonyms : None
Product Use : Foliar Nutritional
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 : None required
Skin Irritation : No known significant effects or critical hazards.
Eye Irritation : No known significant effects or critical hazards.
Acute Toxicity Oral : No known significant effects or critical hazards.
Acute Toxicity Dermal : No known significant effects or critical hazards.

Hazard Categories : Not classified as hazardous.

Hazard Statement : Not Hazardous

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of plant nutrients derived from Urea and Calcium Carbonate.		100.00
Guaranteed Analysis:		
Total Nitrogen (N): 4.00%		
Calcium (Ca): 23.80%		
Chlorine (Cl): 0.01%		

4. First Aid Measures

Eye : Rinse with plenty of 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 : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.
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 poison control center if large quantities have been ingested or inhaled. If decomposition products in a fire are inhaled, symptoms may be delayed. Exposed person may need to be monitored for 48 hours.

5. Fire Fighting Measures

Extinguishing Media : Use an extinguishing agent suitable for the surrounding fire.
Specific Hazards Arising from the Chemical : May emit oxides of carbon, oxides of nitrogen or ammonia under fire conditions. In a fire or if heated, a pressure increase will occur and the container may burst.
Special Fire Fight Proc : Promptly isolate scene by removing all persons from the vicinity of the incident if there is a fire. Wear appropriate protective equipment and self-contained breathing apparatus.



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6. Accidental Release Measures

- Personal Precautions** : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- Protective Equipment** : Splashproof goggles, chemical-resistant gloves, protective equipment for the body should be selected based on task being performed, appropriate footwear, and NIOSH-approved respiratory protection, if needed.
- Emergency Procedures** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.
- Methods and Materials for Containment and Cleanup** : Absorb spilled product with inert dry material and place in an appropriate waste disposal container.

7. Handling and Storage

- Precautions for Safe Handling** : Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
- 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. Keep container tightly closed and sealed. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Carbonic acid calcium salt - OSHA PEL (total dust) 15 mg/m³; Urea - AIHA WEEL time-weighted average 10 mg/m³.
- Appropriate Engineering Controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Personal Protective Equipment** : Splashproof goggles, chemical-resistant gloves, protective equipment for the body should be selected based on task being performed, appropriate footwear, and NIOSH-approved respiratory protection, if needed.

9. Physical and Chemical Properties

- Odor/Appearance** : Off white liquid suspension, undetermined odor.
- Flash Point, °F** : Not determined
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : -8 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not established
- Vapor Density** : Not established
- Solubility in Water** : Not determined
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.679
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined
- pH** : 9.6
- Flammable Limits (approximate volume % in air)** : Not determined



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

10. Stability and Reactivity

Reactivity : No specific test data 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 : None currently known.
Incompatible Materials : Avoid contamination by any source including metals, dust and organic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No known significant effects or critical hazards.
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 : None currently known.
Skin Irritation : Non-irritating
Eye Irritation : Non-irritating
Skin Sensitization : Not sensitizing
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 : Readily biodegradable in plants and soils.
Bioaccumulative Potential : The product does not show any bioaccumulation phenomena.
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
Transport in Bulk : No special considerations needed.
Special Precautions for Transportation : No special considerations needed.
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: 0 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: N
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 23-January-2015