



Safety Data Sheet

Report Date 12-Feb-15

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1. Identification

Product Name : ELE-MAX CLEAR CAL LC
Synonyms : None
Product Use : Foliar Nutritional Liquid Concentrate
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 : No known significant effects or critical hazards.
Eye Irritation : Causes serious eye irritation.
Acute Toxicity Oral : LD50 (rat) 2,301 mg/kg
Acute Toxicity Dermal : LD50 >5,000 mg/kg

Hazard Categories : Eye irritation - 2A; Oral/Dermal Toxicity - 5/5

Hazard Statement : Causes serious eye irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from calcium chloride. Guaranteed Analysis: Calcium (Ca): 12.1% Chlorine (Cl), maximum: 24.0%		100.00

4. First Aid Measures

Eye : Rinse with plenty of running water. Check for and remove any contact lenses. If irritation persists, get medical attention.
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. Get medical attention if adverse health effects persist or are severe.
Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical : In a fire or if heated, a pressure increase will occur and the container may burst.



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Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers.

6. Accidental Release Measures

- Personal Precautions** : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate personal protective equipment.
- Protective Equipment** : Chemical-resistant impervious gloves and tightly-fitting goggles. Use air-purifying respirator if a risk assessment indicates it is necessary. Eyewash station and emergency shower should be nearby.
- Emergency Procedures** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods and Materials for Containment and Cleanup** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Absorb spilled liquid with an inert dry material, collect and place in an appropriate waste container.

7. Handling and Storage

- Precautions for Safe Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in original container or an approved alternative made from compatible material. Keep container tightly closed when not in use.
- 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. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not available
- Appropriate Engineering Controls** : Good general ventilation should be sufficient.
- Personal Protective Equipment** : Chemical-resistant impervious gloves and tightly-fitting goggles. Use air-purifying respirator if a risk assessment indicates it is necessary. Eyewash station and emergency shower should be nearby.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear green liquid with undetermined odor.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : No information found
- Melting Point(Freezing point), °C** : <-20 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Not determined
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.327
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined
- pH** : 9.8



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Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not applicable
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : No specific test data available.
Chemical Stability : Stable
Hazardous Decomposition Products : Emits halogenated compounds and metal oxides/oxide under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contamination by any source including metals, dust and organic materials.
Incompatible Materials : Avoid contact with strong acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 2,301 mg/kg (rat)
Acute Toxicity (Dermal LD50) : >5,000 mg/kg
Acute Toxicity Inhalation LC50 : No known significant effects or critical hazards.
Likely Routes of Exposure : Eyes, skin and inhalation
Skin Irritation : No known significant effects or critical hazards.
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 : No known significant effects or critical hazards.
Transport in Bulk : No special requirements
Special Precautions for Transportation : None



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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 : 12-February-2015