



Safety Data Sheet

Report Date 29-May-15

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1. Identification

Product Name : ELE-MAX BORON LC 4-0-0
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 (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 %
Proprietary blend of plant nutrients derived from Boric Acid, Ethanolamine. Guaranteed Analysis: Total Nitrogen (N): 4.00%		100.00

4. First Aid Measures

Eye : Rinse eyes with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin : Wash skin 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 victim is conscious, give small quantities of water to drink.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. Contact poison control center or doctor if large quantities are 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 : May emit carbon dioxide, carbon monoxide, nitrogen oxides or ammonia under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.



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6. Accidental Release Measures

- Personal Precautions** : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering spill area. Do not touch or walk through spilled material.
- Protective Equipment** : Impervious gloves, impervious apron, splashproof goggles, eyewash station and emergency shower. Use NIOSH-approved respirator if needed.
- Emergency Procedures** : Avoid dispersing spilled material and runoff. Avoid contact with soil, waterways, drains and sewers.
- Methods and Materials for Containment and Cleanup** : Stop leak if able to do so safely. Move containers from spill area. Dilute with water and mop up if water soluble. Or, absorb with an 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, well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready for use.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
- Appropriate Engineering Controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Personal Protective Equipment** : Impervious gloves, impervious apron, splashproof goggles, eyewash station and emergency shower. Use NIOSH-approved respirator if needed.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, yellow liquid with no odor.
- Flash Point, °F** : Not determined
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : <-15 (5 Degrees F)
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Miscible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.353
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined
- pH** : 8.2
- Flammable Limits (approximate volume % in air)** : Not determined
- Auto-ignition Temperature** : Not determined
- Decomposition temperature** : Not determined



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10. Stability and Reactivity

- Reactivity** : No 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** : Avoid contamination by any source, including metals, dust and organic materials.
- Incompatible Materials** : Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen tetrachloride.

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 LD50 available. May be harmful if inhaled.
- Likely Routes of Exposure** : Skin, eyes, ingestion, inhalation.
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : No known significant effects or critical hazards.
- Carcinogenic** : Not listed by IARC, NTP or OSHA.
- Chronic Effects** : Not available.
- Other Hazards** : No known significant effects or critical hazards.

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** : None
- Transport in Bulk** : Not regulated.
- Special Precautions for Transportation** : None required
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information



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National Fire Protection Association Rating :

Health: 1 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 : 29-May-2015