

Material Safety Data Sheet

Effective Date: 27-OCT-2011  
Product: ELE-MAX BORON LC 4-0-0

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I. IDENTIFICATION  
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Chemical Name: Boron  
Chemical Family: Foliar Nutritional Liquid Concentrate  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: None required

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II. PHYSICAL DATA  
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Boiling Point: >100 Degrees C.  
Freezing Point: <0 Degrees F.  
Spec Gravity: 1.372 gms/cc  
Vapor Pressure: Not determined  
Vapor Density: Not determined  
Solubility: Miscible  
Volatiles: Not determined  
Evaporation: Not determined  
Melting Point: Not applicable  
Appearance: Yellow liquid with no odor.

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III. INGREDIENTS  
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Material	CAS Number	Percent	TLV	Hazard
Foliar nutritional liquid concentrate derived from Boric Acid, Ethanolamine.		100.00	N/E	Skin & eye irritant.

GUARANTEED ANALYSIS:  
Total Nitrogen (N): 4.0%  
4% Water-soluble Nitrogen  
Boron (B): 10.9%

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IV. FIRE AND EXPLOSION HAZARD  
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Flash Point: Non-combustible  
Autoignition Temp: Not determined  
Flammable Limit: Not determined  
Extinguishing Media: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.  
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers.  
Fire and Expl Hazard: In combustion, emits toxic fumes.

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V. HEALTH HAZARD  
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Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: Irritation of the throat may occur if ingested.  
Skin Absorption: No hazard anticipated from skin absorption.  
Inhalation: No hazard anticipated from inhalation of spray mists.  
Skin contact: Mild irritation of the skin may occur at the site of contact.  
Eye Contact: Irritation and redness of the eyes may occur with contact.  
Chronic Effects: None currently known.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: Wash out mouth with water. Consult a doctor.  
Skin: Wash affected area immediately with plenty of soap and water. If irritation develops, consult a doctor.  
Inhalation: Move to fresh air. If irritation persists, consult a doctor.  
Eyes: Flush eyes with water for at least 15 minutes. Consult a doctor.  
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

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VI. REACTIVITY  
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Stability: Stable  
Conditions to Avoid: Avoid exposure to excessive heat.  
Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.  
Incompatibility material: Avoid contact with strong oxidizing agents and strong acids.  
Hazardous Combustion: In combustion, emits toxic fumes.

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VII. SPILL OR LEAK PROCEDURES  
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Spill or Leak Proc: Do not discharge into drains or rivers. Absorb spilled liquid onto dry earth or sand. Collect and place in a closable, labeled salvage container for disposal by an appropriate method.  
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

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VIII. SPECIAL PROTECTION INFORMATION  
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Respiration: Use air-purifying respirator with particulate filter.  
Ventilation: General and/or local exhaust should be sufficient.  
Gloves: Protective gloves.  
Eyes: Safety glasses.  
Other: Eyewash station, impervious apron and footwear.

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IX. SPECIAL PRECAUTIONS  
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Special precaution: Store in cool, well-ventilated area. Keep container tightly closed when not in use. Do not contaminate water supplies, lakes, streams, ponds or drains.  
Other precaution: None currently known. The pH of this product is 8.2.

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X. SHIPPING INFORMATION  
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Shipping name: Not regulated by DOT, IATA or IMDG.  
Hazard Class: None  
Identification No: None  
Labels Required: None required  
Placarding: None  
Freight Class: Compound, Fertilizer (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

Chemical Name  
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Equivalent R.Q.

Not applicable  
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Not applicable  
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Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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XI. GENERAL PRODUCT INFORMATION  
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National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1                      Fire: 0                      Reactivity: 0

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

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Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
Helena Chemical Company believes that the data contained herein is factual.  
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responsibility. It is offered solely for your consideration, investigation  
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