

Material Safety Data Sheet

Effective Date: 27-OCT-2011  
Product: ELE-MAX CAL BOR ZN FL 4-0-0

I. IDENTIFICATION

Chemical Name: Calcium-Boron-Zinc Nutritional  
Chemical Family: Foliar Nutritional Liquid Flowable  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: Not determined  
Freezing Point: Not determined  
Spec Gravity: 1.667 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 appreciable odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Formulated blend of plant nutrients derived from Urea, Calcium Carbonate, Boric Acid and Zinc Oxide.		100.00	N/E	Skin & eye irritant.

GUARANTEED ANALYSIS:  
Total Nitrogen (N): 4.0%  
4% Urea Nitrogen  
Calcium (Ca): 15.0%  
Boron (B): 3.0%  
Zinc (Zn): 6.0%

IV. FIRE AND EXPLOSION HAZARD

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

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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: Ingestion may cause irritation of the throat.  
Skin Absorption: No hazard anticipated by skin absorption.  
Inhalation: No hazard anticipated by inhalation.  
Skin contact: Mild skin irritation 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 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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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: 2                      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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