

Material Safety Data Sheet

Effective Date: 21-JAN-2010  
Product: ELE-MAX NUTRIENT CONCENTRATE 11-8-5

I. IDENTIFICATION

Chemical Name: Not applicable, formulated mixture.  
Chemical Family: Inorganic liquid plant nutrient.  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: >212 Degrees F.  
Freezing Point: <32 Degrees F.  
Spec Gravity: 1.235 gms/cc  
Vapor Pressure: 0%  
Vapor Density: Not determined  
Solubility: 100%  
Volatiles: 0%  
Evaporation: Same as water  
Melting Point: Not applicable  
Appearance: Green liquid with vitamin odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of plant nutrients derived from potassium hydroxide, ammonium polyphosphate, urea, sodium tetraborate, cobalt sulfate, ammonium molybdate, iron EDTA, copper EDTA, manganese EDTA and zinc EDTA.		100.00	15 mg/m3	Skin & eye irritant

Note: The chelating agent is EDTA (ethylenediaminetetraacetic acid). See label for Guaranteed Analysis.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible  
Autoignition Temp: Not applicable  
Flammable Limit: Not applicable

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Extinguishing Media: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.  
Special Fire Fight Proc: Wear positive-pressure self-contained breathing apparatus and full protective clothing.  
Fire and Expl Hazard: Product may liberate ammonia gas under fire conditions.

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V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

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Swallowing: Low toxicity - Oral LD50 (rat) >5,010 mg/kg.  
Skin Absorption: Low toxicity - Dermal LD50 (rabbit) >2,020 mg/kg.  
Inhalation: No hazard expected.  
Skin contact: May be slightly irritating with skin contact.  
Eye Contact: Direct contact with eyes may cause severe irritation.  
Chronic Effects: None currently known.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

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Swallowing: Give 1 to 2 glasses of water to drink and induce vomiting. If irritation develops, consult a physician.  
Skin: Wash skin thoroughly with soap and water. If irritation develops, consult a physician.  
Inhalation: Move to fresh air. If breathing becomes difficult, consult a physician.  
Eyes: Flush eyes with water for at least 15 minutes, holding eyelids open. If irritation develops, seek medical treatment.  
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms.

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VI. REACTIVITY

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Stability: Stable  
Conditions to Avoid: None currently known.  
Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.  
Incompatibility material: Do not mix with alkaline materials.

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Hazardous Combustion: Ammonia gas and phosphoric acid may be produced under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Dike and contain spilled product. If uncontaminated, collect and reuse. If contaminated, absorb with clay, sand or sawdust. Place in suitable containers for proper disposal. Wash spill area with large amounts of water. Collect washwaters and dispose of with spilled product.

Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None normally required.

Ventilation: Local exhaust sufficient.

Gloves: Impervious gloves.

Eyes: Splashproof goggles.

Other: Eyewash station, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or ponds.

Other precaution: This product does not contain any chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT, IATA or IMDG.

Hazard Class: None

Identification No: None

Labels Required: None required

Placarding: None

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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Freight Class: Compound, Fertilizer (Manufactured Fertilizer),  
Liquid, NOIBN (NMFC Item 68140, Sub 6, Class  
70)

Chemical Name	Equivalent R.Q.
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Not applicable	Not applicable

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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  
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