

Material Safety Data Sheet

Effective Date: 25-SEP-2003
Product: ELE-MAX COPPER FL 4-0-0

I. IDENTIFICATION

Chemical Name: Copper Oxide Foliar Treatment
Chemical Family: Inorganic Metal Salt
Formula: Not applicable, formulated mixture.
Synonyms: New Copflow
CAS Number: Not applicable, formulated mixture.
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: >212 Degrees F.
Freezing Point: Not determined
Spec Gravity: 1.526 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Miscible
Volatiles: Not determined
Evaporation: Not determined
Melting Point: 17 Degrees F. (approx)
Appearance: Brick-red suspension concentrate, no odor.

III. INGREDIENTS

Material	CAS Number	Percent TLV	Hazard
Proprietary Blend of Nitrogen and Copper, derived from Urea and Copper Oxide.		100.00	Skin & eye irritant
TYPICAL COMPOSITION:			
Total Nitrogen (N):		4.00%	
Copper (Cu):		33.00%	

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 full protective clothing. Use water spray to keep fire-exposed containers cool.
Fire and Expl Hazard: May produce toxic fumes under fire conditions.

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V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Harmful if ingested. Oral LD50 (rat) 200-2,000 mg/kg (calculated).
Skin Absorption: Not readily absorbed by intact skin. May be irritating with prolonged or repeated contact.
Inhalation: Inhalation of spray may be irritating to the upper respiratory tract.
Skin contact: May be irritating with prolonged or repeated skin contact.
Eye Contact: May be irritating with direct contact to eyes.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: If swallowed, wash mouth out with water. Obtain medical attention.
Skin: Remove contaminated clothing. Wash affected area with soap and water. If irritation develops, seek medical attention.
Inhalation: Move to fresh air. If irritation develops or persists, seek medical advice.
Eyes: Flush eyes with water for at least 15 minutes, holding eyelids open. If irritation develops, seek medical attention.
Notes to Physician: There is no specific antidote for this product. Treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Extremes of temperature.
Polymerization: Will Not Occur
Conditions to Avoid: Extremes of temperature.
Incompatibility material: Avoid oxidizing materials.
Hazardous Combustion: May produce toxic fumes if heated to decomposition.

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VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: If uncontaminated, collect and reuse spilled material as intended. If contaminated, absorb using clay or sand and place in plastic containers for disposal. Wash spill area with water, absorb and collect. Place in containers with other material for disposal.

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: NIOSH/MSHA-approved mist-type respirator when spraying.

Ventilation: Local exhaust sufficient.

Gloves: Rubber or PVC gloves.

Eyes: Chemical workers' goggles.

Other: Emergency shower, 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. Store in a cool, dry place. Protect from frost. Avoid extreme temperature changes. Avoid storage with oxidizing substances.

Other precaution: Keep container tightly closed, do not allow water to be introduced into container contents.

X. SHIPPING INFORMATION

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)

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Chemical Name	Equivalent R.Q.
Not applicable	Not applicable

XI. GENERAL PRODUCT INFORMATION

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	

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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