

Material Safety Data Sheet

Effective Date: 12-AUG-2003
Product: Ele-max Manzinc FL 3-0-0

I. IDENTIFICATION

Chemical Name: Liquid susp. conc. of zinc & manganese
Chemical Family: Inorganic metal salts
Formula: Not applicable, formulated mixture
Synonyms: None
CAS Number: See ingredient statement, Section III
EPA Number: Not required

II. PHYSICAL DATA

Boiling Point: >100 Degrees C.
Freezing Point: -7 Degrees C.
Spec Gravity: 1.793 GMS/CC
Vapor Pressure: Not established
Vapor Density: Not established
Solubility: Miscible with water
Volatiles: Not established
Evaporation: Not established
Melting Point: -7 Degrees C
Appearance: Light brown suspension, low odor

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary liquid suspension concentrate of zinc oxide, manganese carbonate and urea		100.00	Not establi shed	Particles in suspension may cause eye and skin irritant

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Noncombustible
Autoignition Temp: Not applicable
Flammable Limit: Not applicable
Extinguishing Media: Noncombustible liquid. Use extinguishing media
for underlying cause of fire.
Special Fire Fight Proc: Wear self-contained breathing apparatus and
full protective equipment. Use water spray to
keep fire-exposed containers cool.
Fire and Expl Hazard: Product 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: May be harmful if ingested in excessive amounts, giving symptoms of fume fever, dry throat, headaches, muscle aches, cramps and slowness of speech, acute oral LD50 (rat) = >2000 MG/KG.

Skin Absorption: None currently known.

Inhalation: Excessive inhalation may be harmful giving symptoms of fume fever, dry throat, headaches, muscle aches, cramps & slowness of speech.

Skin contact: Product may produce mild skin irritation.

Eye Contact: Product may produce mild eye irritation.

Chronic Effects: None currently known where product is used under conditions of good industrial hygiene.

Other Hazard: None currently known

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: If conscious, give milk or water to drink, obtain medical attention immediately.

Skin: Remove contaminated clothing and wash skin with soap and water. Obtain medical attention if irritation develops.

Inhalation: Move to fresh air, obtain medical attention if irritation develops.

Eyes: Flush eyes with water for 15 minutes, holding eyelids open. Obtain medical attention if irritation develops.

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.

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: Extremes of temperatures

Polymerization: Will Not Occur

Conditions to Avoid: None currently known

Incompatibility material: Acids

Hazardous Combustion: Product may produce manganese fume and/or other toxic fumes and vapors under fire conditions.

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VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain product, reuse material if uncontaminated. If contaminated, absorb material with an absorbent such as clay or sand and place in suitable plastic container for proper disposal. Do not contaminate water supplies.

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 needed under normal conditions. Use NIOSH/MSHA mist-type respirator under misty conditions.

Ventilation: Local exhaust sufficient

Gloves: Impervious gloves

Eyes: Splash proof goggles

Other: Eye wash 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. Store in original containers, away from excessive heat, but do not allow to freeze.

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 (Highway), IATA (air) or IMDG (water).

Hazard Class: None

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

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Identification No: None
Labels Required: None required
Placarding: None required
Freight Class: Compound, Fertilizer (Manufactured Fertilizer)
Liquid, NOIBN (NMFC Item 68140, Sub 6, Class
70)

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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