

Material Safety Data Sheet

Effective Date: 12-AUG-2003
Product: ELE-MAX ZINC PHOSPHATE LC 0-28-5

I. IDENTIFICATION

Chemical Name: Conc. Liq. Phosphorus, Potassium & Zinc
Chemical Family: Inorganic Nutrients
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: <-15 Degrees C.
Spec Gravity: 1.526 GMS/CC
Vapor Pressure: Not established
Vapor Density: Not established
Solubility: Miscible with water
Volatiles: Not established
Evaporation: Not established
Melting Point: <-15 Degrees C.
Appearance: Clear blue liquid, low odor

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary liquid concentrate blend; derived from zinc phosphate, phosphoric acid, potassium phosphate and potassium chloride (contains 8.00% W/W free phosphoric acid)		100.00	Not established	Product is acidic; established may cause skin & eye irritation

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. A thermal decomposition product

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may be phosphorus pentoxide.

V. HEALTH HAZARD

Carcinogen Information: None currently known

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Excessive ingestion may cause internal
irritation due to the product's acidic nature.
Oral LD50 (rat) =>2000 MG/KG

Skin Absorption: None currently known

Inhalation: Mist may produce irritation of the upper
respiratory tract.

Skin contact: May produce skin irritation due to the acidic
nature of the product.

Eye Contact: May produce eye irritation due to the acidic
nature of the product.

Chronic Effects: None currently known

Other Hazard: None currently known

EMERGENCY AND FIRST AID PROCEDURES

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

Skin: Wash skin thoroughly with soap and water.
Obtain medical attention if irritation
develops. Launder clothing before reuse.

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
immediately.

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. Ingestion may result in irritation
of the digestive tract due to the acidic
nature of the product. Product has a ph of
0.6.

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: Extremes of temperatures

Polymerization: Will Not Occur

Conditions to Avoid: None currently known

Incompatibility material: Caustic soda, chlorates, nitrates, calcium

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carbide, etc., mild steel, aluminum alloy,
brass, tin, galvanized material.
Hazardous Combustion: Reacts with metal (E.G., see above) with
evolution of hydrogen giving rise to potential
flammable and explosive mixture.

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. If mist
is present use a mist-type canister respirator
approved by MSHA/NIOSH.
Ventilation: Local exhaust normally 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.
Store away from bases (such as caustic soda),
chlorates and nitrates.
Other precaution: A) RCRA Hazardous Waste Number: D002,
Corrosivity (as waste)
B) SARA Title III, Section 313: Phosphoric Acid
(8.00%)
C) SARA Threshold Planning Quantity: 10,000
Gallon (Mixture)
D) CERCLA Reportable Quantity: 4,900 Gallon
E) 49 CFR 172.102, Appendix A: Hazardous Substance

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F) 49 CFR 172.102, Appendix B: Not Listed

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT (Highway) or IMDG (Water).
Regulated as a corrosive liquid by IATA (Air).
(Ph of 0.6)

Hazard Class: None
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.
Phosphoric Acid	5000 LB (2270 KG)

XI. GENERAL PRODUCT INFORMATION

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

Health: 2 Fire: 0 Reactivity: 1

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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