

Material Safety Data Sheet

Effective Date: 10-APR-2002
Product: ELE-MAX FOLIAR PHOSPHITE 4-0-20

I. IDENTIFICATION

Chemical Name: Concentrated liquid solution of N-P-K.
Chemical Family: Inorganic plant nutrients.
Formula: Not applicable, formulated mixture.
Synonyms: Ele-max Foliar Phosphite 4-30-20
CAS Number: Not applicable, formulated mixture.
EPA Number: Not required

II. PHYSICAL DATA

Boiling Point: 212 Degrees F.
Freezing Point: < -15 Degrees C.
Spec Gravity: 1.434 gms/cc
Vapor Pressure: Not established
Vapor Density: Not established
Solubility: Miscible
Volatiles: Not established
Evaporation: Not established
Melting Point: > -15 Degrees C.
Appearance: Clear yellow/green liquid, low odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary liquid concentrated blend of Nitrogen, Phosphate, and Soluble Potash; Derived from Urea, Potassium Hydroxide, and Phosphorous Acid		100.00	N/D	Product is acidic; Skin & Eye irritant

NOTE: N/D = Not Determined

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not applicable
Flammable Limit: Not applicable
Extinguishing Media: Non-combustible 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 phosphoric pentoxide under

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fire conditions. May produce hydrogen gas if
in contact with certain metals (see Section
VI.).

V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Excessive ingestion may cause internal
irritation by virtue of acidic nature.
Skin Absorption: None currently known.
Inhalation: Mist may produce irritation of the upper
respiratory tract.
Skin contact: Product may produce skin irritation by virtue
of acidic nature.
Eye Contact: Product may produce severe eye irritation by
virtue of acidic nature.
Chronic Effects: None currently known, where the 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. Do
not induce vomiting. 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
to the digestive tract.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Extremes of temperature.
Polymerization: Will Not Occur

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Conditions to Avoid: None currently known.
Incompatibility material: Caustic soda, chlorates, nitrates, calcium carbide, etc., mild steel, aluminum alloy, brass, tin, and galvanized metals.
Hazardous Combustion: Will react with metal (see above) with evolution of hydrogen giving rise to potentially flammable and explosive mixtures.

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 plastic containers 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 NIOSH/MSHA.
Ventilation: Local exhaust normally sufficient.
Gloves: Impervious.
Eyes: Splash proof 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 materials 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. See Section VI.
Other precaution: A) RCRA Hazardous Waste Number: Not listed
B) SARA Title III, Section 313: Not listed
C) SARA Threshold Planning Quantity: 10,000 lbs.
D) CERCLA Reportable Quantity: Not listed
E) 49 CFR 172.102, Appendix A: Not listed

