



Safety Data Sheet

Report Date 16-Apr-15

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1. Identification

Product Name : ELE-MAX KAYPHOL LC 0-5-32
Synonyms : None
Product Use : Foliar Nutritional Liquid Concentrate
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Causes skin irritation. May cause pain, redness or blistering.
Eye Irritation : Causes serious eye irritation. May cause pain, watering or redness.
Acute Toxicity Oral : LD50 >2,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rat)

Hazard Categories : Skin Irritation - 2; Eye Irritation - 2A; Inhalation Toxicity - 4; Oral/Dermal Toxicity - 5/5

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes skin irritation
Harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of plant nutrients derived from Potassium Carbonate and Potassium Phosphate. Guaranteed Analysis: Available Phosphate (P2O5): 5.0% Soluble Potash (K2O): 32.0% Chlorine (Cl): not more than 0.5%		100.00

4. First Aid Measures

Eye : Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention.

Skin : Wash with soap and water. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention immediately. If breathing is difficult, give oxygen.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. Contact poison control center or doctor immediately if large quantities have been ingested or inhaled.

5. Fire Fighting Measures



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- Extinguishing Media** : Use an extinguishing agent suitable for the surrounding fire.
- Specific Hazards Arising from the Chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Special Fire Fight Proc** : Promptly isolate area by removing all persons from the vicinity of the incident if there is a fire. Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation.
- Protective Equipment** : Eyewash station, emergency shower, splashproof goggles, chemical-resistant gloves, impervious apron and footwear.
- Emergency Procedures** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods and Materials for Containment and Cleanup** : Stop leak if without risk. Move containers from spill area. Absorb spilled liquid with an inert dry material. Collect and place in an appropriate waste disposal container.

7. Handling and Storage

- Precautions for Safe Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in original container or an approved alternative made from compatible material, kept tightly closed when not in use. Keep away from acids.
- Conditions for Safe Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, well-ventilated area, away from incompatible materials, food and drink. Store locked up. Separate from acids.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not determined
- Appropriate Engineering Controls** : Use only with adequate ventilation.
- Personal Protective Equipment** : Eyewash station, emergency shower, splashproof goggles, chemical-resistant gloves, impervious apron and footwear.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, yellow liquid; undetermined odor.
- Flash Point, °F** : Not determined
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : <-5 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Not determined
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.555
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined
- pH** : 11.5-12.5 (10%)



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Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : No specific test data related to reactivity.
Chemical Stability : Stable
Hazardous Decomposition Products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contamination by any source including metals, dust and organic materials.
Incompatible Materials : Reactive or incompatible materials include acids.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >2,000 mg/kg (rat)
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rat)
Acute Toxicity Inhalation LC50 : 2 mg/L (rat)
Likely Routes of Exposure : Skin, eyes, inhalation.
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : No known significant effects or critical hazards.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No data available.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : No known significant effects or critical hazards.
Persistence and Degradability : No known significant effects or critical hazards.
Bioaccumulative Potential : No known significant effects or critical hazards.
Mobility in Soil : Not available.
Other Adverse Effects : No known significant effects or critical hazards.

13. Disposal Considerations

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

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT, IATA or IMDG.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : None
Transport in Bulk : None
Special Precautions for Transportation : None required



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

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

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

16. Other Information

Data of Preparation/Revision : 16-April-2015