



Safety Data Sheet

Report Date 05-Jun-15

Page 1 of 4

1. Identification

Product Name : Ele-Max PhosCal-Zin FL 4-15-0
Synonyms : None
Product Use : Foliar Nutritional Liquid Flowable
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 : Warning
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Moderate irritant (rabbit).
Acute Toxicity Oral : LD50 >40,000 mg/kg (rat)
Acute Toxicity Dermal : No information found

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2A/3; Aquatic Tox (Acute/Chronic)-1/2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes mild skin irritation
May be harmful if inhaled
Very toxic to aquatic life
Toxic to aquatic life with long lasting effects

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of plant nutrients derived from Urea, Calcium Phosphate, Calcium Carbonate and Zinc Phosphate.		100.00
Guaranteed Analysis:		
Total Nitrogen (N): 4.00%		
Available Phosphate (P2O5): 15.00%		
Calcium (Ca): 13.00%		
Zinc (Zn): 7.70%		

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.



Safety Data Sheet

Report Date 05-Jun-15

Page 2 of 4

- Ingestion** : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically. Contact poison control center if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Observe for 48 hours.

5. Fire Fighting Measures

- 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 container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained.
- Special Fire Fight Proc** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in a positive-pressure mode.

6. Accidental Release Measures

- Personal Precautions** : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- Protective Equipment** : Eyewash station, emergency shower, chemical-resistant gloves, splashproof goggles, impervious apron and footwear. Air-purifying respirator, if needed.
- Emergency Procedures** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. May be harmful to environment if released in large quantities.
- Methods and Materials for Containment and Cleanup** : Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material, collect and place in an appropriate waste container for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Keep container tightly closed, do not allow water to be introduced to the contents of this container. Do not contaminate water sources by cleaning of equipment or disposal of spray waste.
- Conditions for Safe Storage** : Keep in a cool, dry chemical storage area, out of reach of children and livestock. Protect from frost. Store at temperatures above 32 Degrees F.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
- Appropriate Engineering Controls** : Good general ventilation should be sufficient.
- Personal Protective Equipment** : Eyewash station, emergency shower, chemical-resistant gloves, splashproof goggles, impervious apron and footwear. Air-purifying respirator, if needed.

9. Physical and Chemical Properties

- Odor/Appearance** : White liquid; odor not determined.
- Flash Point, °F** : Not flammable



Safety Data Sheet

Report Date 05-Jun-15

Page 3 of 4

Boiling Point, °F : Not determined
Melting Point(Freezing point), °C : <0 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 : 1.565
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : Not determined
pH : 8.8
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 : Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >40,000 mg/kg. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No data available. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No data available. May be harmful if inhaled. Exposure to decomposition products may pose a hazard.
Likely Routes of Exposure : Not available.
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Moderate irritant (rabbit). Causes serious eye irritation.
Skin Sensitization : No known significant effects or critical hazards.
Carcinogenic : None currently known.
Chronic Effects : No known significant effects or critical hazards.
Other Hazards : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

12. Ecological Information

Ecotoxicity : Very toxic to aquatic life (Acute). Toxic to aquatic life with long lasting effects (chronic).
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations



Safety Data Sheet

Report Date 05-Jun-15

Page 4 of 4

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. Regulated by IATA and IMDG as UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (trizinc bis(orthophosphate)), 9, PG III, Marine Pollutant

Transport Hazard Class : Not regulated by DOT

UN Identification Number : Not regulated by DOT

Packaging Group : Not regulated by DOT

Environmental Hazards : Marine Pollutant under GHS (IMDG and IATA)

Transport in Bulk : Not regulated by DOT

Special Precautions for Transportation : Regulated as Marine Pollutant for international shipping.

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 : 05-June-2015