



# Safety Data Sheet

Report Date 12-Oct-17

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## 1. Identification

**Product Name** : Ele-Max PhoZ B Mag WP 0-5-1  
**Synonyms** : None  
**Product Use** : Foliar Nutritional Wettable Powder  
**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** : Not classified as hazardous under 29 CFR 1910.1200 (2012)  
**Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012)  
**Acute Toxicity Oral** : Not classified as hazardous under 29 CFR 1910.1200 (2012)  
**Acute Toxicity Dermal** : Not classified as hazardous under 29 CFR 1910.1200 (2012)  
**Hazard Categories** : Fertility-1B; Aquatic Hazard (Acute/Chronic)-1/2  
**Hazard Statement** : May damage fertility or the unborn child (reduced fetal weight, increase in fetal deaths, skeletal malformations)  
Very toxic to aquatic life  
Toxic to aquatic life with long lasting effects

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Boron sodium oxide	12280-03-4	>=12.5 to <15
Non-hazardous components	Proprietary	Balance
GUARANTEED ANALYSIS:		
Available Phosphate (P2O5):		5.0%
Soluble Potash (K2O):		1.0%
Magnesium (Mg):		24.0%
24.0% Water Soluble Magnesium (Mg)		
Boron (B):		3.0%



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Molybdenum (Mo): 0.00139%

Zinc (Zn): 10.0%

Derived from Zinc Phosphate, Kelp Extracts (ascophyllum nodosum), Magnesium Hydroxide, Sodium Borate, and Sodium Molybdate.

### 4. First Aid Measures

**Eye** : Rinse eyes with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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

**Inhalation** : If inhaled, remove to fresh air. Get medical attention.

**Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

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

### 5. Fire Fighting Measures

**Extinguishing Media** : Use an extinguishing agent suitable for the surrounding fire.

**Specific Hazards Arising from the Chemical** : 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 and prevented from being discharged to any waterway, sewer or drain.

**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.

### 6. Accidental Release Measures

**Personal Precautions** : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Protective Equipment** : Eyewash station, emergency shower, tightly fitting 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. May be harmful to the environment if released in large quantities.

**Methods and Materials for Containment and Cleanup** : Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

### 7. Handling and Storage



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- Precautions for Safe Handling** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest.
- Conditions for Safe Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : None
- Appropriate Engineering Controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Personal Protective Equipment** : Eyewash station, emergency shower, tightly fitting goggles, chemical-resistant gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator when needed.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Off-white solid/powder; undetermined odor.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : Not determined
- 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** : Not determined
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined
- pH** : Not determined
- Flammable Limits (approximate volume % in air)** : Not determined
- Auto-ignition Temperature** : Not applicable
- Decomposition temperature** : Not determined

### 10. Stability and Reactivity



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- 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** : No specific data.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 2,550 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Acute Toxicity (Dermal LD50)** : >2,000 mg/kg (rabbit). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Acute Toxicity Inhalation LC50** : >2 mg/L (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Likely Routes of Exposure** : Inhalation, skin, eyes, ingestion.  
**Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Skin Sensitization** : Not listed as a sensitizer.  
**Carcinogenic** : No known significant effects or critical hazards.  
**Chronic Effects** : Reproductive toxicity: May damage fertility or the unborn child. Teratogenicity: May damage the unborn child.. May cause reduced fetal weight, increase in fetal deaths and skeletal malformations.  
**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 with long lasting effects.  
**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



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**UN Proper Shipping Name** : Not regulated by DOT. Regulated by IATA and IMDG as UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (trizinc bis(orthophosphate)), 9, PG III, Marine Pollutant  
**Transport Hazard Class** : Class 9 (IATA/IMDG)  
**UN Identification Number** : UN3077 (IATA/IMDG)  
**Packaging Group** : PG III (IATA/IMDG)  
**Environmental Hazards** : Marine Pollutant  
**Transport in Bulk** : Not regulated by DOT.  
**Special Precautions for Transportation** : Regulated when shipped by air (IATA) or sea (IMDG).  
**Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item 68140, Sub 5, Class 50)

## 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: N  
Delayed (Chronic) Health: Y  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

## 16. Other Information

**Data of Preparation/Revision** : 12-October-2017