



Ingredient	CAS Number	Percent	Hazardous
Water	7732-18-5	90.2%	No exposure limits established by OSHA or ACGIH
Calcium Chloride, Dihydrate	10035-04-8	4.4%	No exposure limits established by OSHA or ACGIH
Magnesium Sulfate, Heptahydrate	10034-99-8	3.7%	No exposure limits established by OSHA or ACGIH
Potassium Phosphate, Monobasic	7778-77-0	1.7%	No exposure limits established by OSHA or ACGIH

#### 4. FIRST AID MEASURES

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. <b>Get medical attention.</b>
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. <b>Get medical attention.</b>
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. <b>Get medical attention if irritation persists.</b>

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions. (Sulfur oxides, magnesium oxide)

#### 6. ACCIDENTAL RELEASE MEASURES

Ventilation:	Ventilation hood recommended
Eye/Skin Protection:	Have eye-washing facilities readily available where eye contact can occur. Wear chemical safety goggles. Use appropriate chemical protective gloves when handling. Showering and changing into street clothes after work is recommended.
Protective Equipment:	A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited. Wear suitable protective clothing and a self-contained breathing apparatus if available.
Method of Containment and Cleanup:	Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water.

#### 7. HANDLING AND STORAGE

Storage and Handling Precaution:	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid incompatible substances. Wash thoroughly after use.
Incompatibilities:	Strong oxidizing agents, sulfuric acid

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	N/A
Threshold Limit Values (TLVs):	N/A

Engineering Controls: N/A  
Personal Protective Equipment (PPE): Safety glasses, protective gloves, lab coat, and an appropriate dust mask

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid  
pH: 3.5 – 4.5  
Solubility: Miscible with water  
Melting Range: No data available  
Vapor Density: No data available  
Vapor Pressure: No data available  
Specific Gravity: No data available  
Odor: Odorless  
Odor Threshold: No data available  
Flash Point (Closed Cup): N/A  
Flammable Limits: Upper – N/A % Lower – N/A %

## 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use  
Possibility of Hazard Reactions: Will not occur  
Conditions to Avoid: Temperature extremes  
Incompatibles Materials: Strong oxidizing agents, sulfuric acid  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, flammable hydrogen, sulfur oxides, magnesium oxides

## 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): 2,100 (Calcium chloride), 1,200 (Magnesium sulfate, heptahydrate)  
LD<sub>50</sub> (Oral-Mouse)(mg/Kg): 645 (Magnesium sulfate, heptahydrate)  
LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg): >5,000 (Calcium chloride), 150 (Magnesium sulfate, heptahydrate)

Carcinogenicity: NTP: No  
IARC: No  
Z List: No  
OSHA Reg: No

Teratogenicity: N/A

Effects of Overexposure: Irritation, sneezing, gastrointestinal upset, diarrhea, vomiting, central nervous system depression

Target Organs: Central nervous system, gastrointestinal tract, heart

Medical Conditions Aggravated By Exposure: None identified

Routes of Entry: Inhalation, Ingestion

***The toxicological properties of this product have not been thoroughly investigated***

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: LC<sub>50</sub> (Fish)(mg/Kg): 8,350 - 10,650 (Lepomis macrochirus) (Calcium chloride)  
LC<sub>50</sub> (Other Aquatic Organisms 1)(mg/Kg): 759 – 3,005 (Daphnia magna) (Calcium chloride)  
Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

### 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: N/A

### 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

### 15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

SARA TITLE III NOTIFICATION INFORMATION

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Massachusetts Right to Know Components: No components are subject to Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 10034-99-8 Magnesium(II) sulfate heptahydrate

New Jersey Right to Know Components: CAS No.: 10034-99-8 Magnesium(II) sulfate heptahydrate

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any reproductive harm.

## 16. OTHER INFORMATION

***Phyto*Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. *Phyto*Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

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