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## Material Safety Data Sheet

### SECTION 1 PRODUCT IDENTIFICATION

**PRODUCT NAME:** Magnesium Sulphate Heptahydrate  
**SUPPLIER:** HORIZONTAL ALLIANCE CORPORATION  
ADD:304-0 WYNFORD DRIVE, TORONTO, ON. CANADA M3C1J5

### SECTION 2 COMPOSITION INFORMATION

**Synonyms:** Magnesium sulfate (1:1) heptahydrate; Epsom salts; sulfuric acid, magnesium salt (1:1), heptahydrate; Magnesium sulfate, 7- hydrate  
**CAS No.:** 10034-99-8  
**Molecular Weight:**246.47  
**Chemical Formula:**MgSO<sub>4</sub>.7H<sub>2</sub>O

**Chemical Name and Synonyms C.A.S. No. Chemical Formula WT% TLV PEL**

**Hazardous**

None listed

**Non-Hazardous**

This is a homogeneous crystal product containing:  
Magnesium Sulphate MgSO<sub>4</sub>

### SECTION 3 HAZARDS IDENTIFICATION

**Ingestion:** Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.  
**Inhalation:** Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.  
**Eye Contact:** Dust from this product may cause particulate discomfort to eyes.  
**Skin Absorption:** Not normally absorbed through the skin.  
**Skin Contact:** Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.  
**Effects of Overdose:** Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

### SECTION 4 FIRST AID MEASURES

**Ingestion:** If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical



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attention.

**Inhalation:** Remove to fresh air. Seek medical attention if condition persists.

**Eyes:** Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.

**Skin:** Wash with soap and water. Seek medical attention if condition persists.

**Notes to Physician:** Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

## SECTION 5 FIRE FIGHTING MEASURES

**Extinguishing Media:** Use media suitable to extinguish source of fire.

**Special Fire Fighting Procedures:** Product is not combustible.

**Unusual Fire and Explosion Hazards:** During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub> or CN.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Environmental Precautions:** Keep out of water supplies, lakes, ponds, streams and rivers. This product is a material of fertilizer and may promote algae growth.

**Steps to be taken in case material is released or spilled:**

Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

## SECTION 7 HANDLING AND STORAGE

**Precautions to be taken in handling and storing:**

Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Protection:** Adequate ventilation.

**Respiratory Protection:** Approved dust respirator when necessary.

**Protective Clothing:** Normal clean work clothing.

**Eye Protection:** In dusty conditions, safety glasses with side shields or goggles may be necessary.



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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Density:** 1.67g/ml

**Flashpoint:** Non-flammable Vapor Pressure, mm Hg: Not applicable

**pH:** 1 gm/10 gm H<sub>2</sub>O: 7-8 Reaction with Water: None

**Appearance:** White crystal.

**Extinguishing Media:** Use media suitable to extinguish source of fire.

## SECTION 10 STABILITY AND REACTIVITY

**Stability (Normal Conditions):** Stable

**Conditions to Avoid:** Extremely high temperatures.

**Compatibility:** Water and glycerin

**Hazardous Polymerization:** Will not occur

## SECTION 11 TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a mutagen, reproductive effector.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Magnesium Sulfate Anhydrous (7487-88-9)	No	No	None

## SECTION 12 ECOLOGICAL INFORMATION

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Disposal Procedures:** Pick up with a shovel and broom or take them to relative company for dealing with.



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#### SECTION 14 TRANSPORT INFORMATION

**U.N. Number:**Not Relevant

**Dangerous Goods Class/**

**And Subsidiary Risk:**Not Relevant

**Packaging Group:**Not Relevant

**Hazchem Code:**Not Relevant

**Poison Schedule No.:**Not Relevant

**Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code**

**(ADG CODE) for transport by Road or Rail.**

#### SECTION 15 REGULATORY INFORMATION

**Flash Point (Test Method): Non-flammable Flammable Limits LOWER UPPER**

**Autoignition Temperature: Not applicable (% BY VOLUME) N/A N/A.**

**Australian Hazchem Code: No information found.**

**Poison Schedule: No information found.**

**WHMIS:**

**This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations**

**(CPR) and the MSDS contains all of the information required by the CPR**

#### SECTION 16 OTHER INFORMATION

**NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0**

**Label Hazard Warning:**

**CAUTION! MAY BE HARMFUL IF SWALLOWED.**

**Label Precautions:**

**Keep container closed.**

**Wash thoroughly after handling.**

**Label First Aid:**

**If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.**

**Product Use:**

**Laboratory Reagent.**

**Revision Information:**

**New 16 section MSDS format, all sections have been revised.**