

## 1. Identification

Common Name/ Trade Name:	<b>Fritz ProAquatics Magnesium Sulfate</b>	Revision Date:	May 8, 2019
Material Uses:	Aquarium water quality	Product Number:	N/A
Supplier:	FRITZ INDUSTRIES, INC. 500 SAM HOUSTON ROAD MESQUITE, TX 75149	<b>In Case of Emergency:</b>	
		Week Days: (Monday – Friday 8-5): (972) 329-8800 (800) 955-1323	CHEMTREC (7 days a week, 24 hours a day) (800) 424-9300

## 2. Hazard(s) Identification

Classification:	Not Classified under GHS		
Labeling:	Symbol:	Symbol not required.	
	Signal Word:	Signal word not required.	
	Hazard Statement:	Not a hazardous substance or mixture.	
	Precautionary Statements:	P102 Keep out of reach of children. P233 Keep container tightly closed. P264 Wash skin thoroughly after handling. P281 Use personal protective equipment as required.	
Other Hazard Information:	Physical/Chemical Hazards:	No additional hazards	
	Health Hazards:	Ingestion may cause gastrointestinal irritation. Dust inhalation may cause irritation to mucous membranes and respiratory system.	
	Environmental Hazards:	No additional hazards	

## 3. Composition and Information on Ingredients

<u>Chemical Identity</u>	<u>Numbers of Identity</u>	<u>% by Weight</u>
Magnesium Sulfate	CAS # 7487-88-9	100%

**4. First Aid Measures**

**Inhalation:** If inhaled, remove from area to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash contact areas with soap and water. Launder contaminated clothing before reuse. If irritation develops and persists, seek medical attention.

**Eye Contact:** Immediately flush eyes thoroughly with large amounts of water for a minimum of 15 minutes, while holding eyelids open. If irritation or adverse symptoms develop, seek medical attention.

**Ingestion:** If victim is conscious and alert, rinse mouth out and give 1/2 to 1 cup of water to dilute material. Do not induce vomiting. Seek medical attention.

**5. Fire and Explosion Data**

**General Information:** This material is not flammable or combustible.

**Suitable Extinguishing Media:** Use suitable media to extinguish surrounding fire.

**Unsuitable Extinguishing Media:** None known.

**Specific Hazards in Case of Fire:** Irritating and toxic fumes may be generated by thermal decomposition.

**Special Protective Equipment and Precaution for Fire Fighters:** Full protective clothing and approved self-contained breathing apparatus required for fire personnel.

**6. Accidental Release Measures**

**Personal Precautions:** Avoid skin and eye contact. Avoid breathing dust. Use appropriate personal protective equipment, see section 8.

**Environmental Precautions:** Prevent from entering sewers and waterways.

**Methods and Materials for Containment and Cleaning Up:** Ventilate area. Isolate and contain spill. Use dry methods to collect spilled materials. Avoid generating dust. Place material in suitable container for reclamation or disposal.

**7. Handling and Storage**

**Precautions for Safe Handling:** Avoid direct skin and eye contact with material. Avoid breathing dust. Use proper personal protective equipment, see section 8. Wash exposed areas thoroughly after handling.

**Conditions for Safe Storage, including Incompatibilities:** Keep container tightly closed. Store in a cool, dry, and well-ventilated location. Store away from strong oxidizing agents.

**8. Exposure Controls/Personal Protection**

**Exposure Limits:**

Component Name (CAS-No.)	Reference	Limit Values
Magnesium Sulfate CAS # 7487-88-9	ACGIH (TWA)	Not established
	NIOSH (REL)	Not established
	OSHA (PEL)	Not established

**Ventilation:** Use local exhaust ventilation or other engineering controls to keep airborne dust levels minimal.

**Respiratory Protection:** If ventilation is inadequate, use a MSHA/NIOSH approved respirator that meets with OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements.

**Eye Protection:** Safety glasses with side shields or goggles.

**Skin Protection:** Chemical resistant gloves.

**9. Physical and Chemical Properties**

Flashpoint:	Not determined	Lower Flammability Limit:	Not determined
Auto ignition Temperature:	Not determined	Upper Flammability Limit:	Not determined
Boiling Point:	Not determined	Specific Gravity:	<b>2.65</b>
Melting Point:	Not determined	% Volatile:	Not determined
Vapor Pressure, mmHg:	Not determined	Evaporation Rate (Water=1):	Not determined
Vapor Density (air=1):	Not determined	Viscosity:	Not determined
%Solubility in Water:	<b>Soluble</b>	Octanol/Water Partition Coefficient:	Not determined
Pour Point:	Not determined	pH:	<b>5.0 – 9.2</b>
Odor/Appearance:	<b>Odorless, white crystals/powder</b>		

**10. Stability and Reactivity Data**

**Chemical Stability:** Stable under recommended conditions of use and storage.  
**Possibility of Hazardous Reactions:** None known.  
**Conditions to Avoid:** Air, moisture, excessive heat and dust formation.  
**Materials to Avoid:** Strong oxidizing agents, ethoxy ethyl alcohols, lead, calcium, barium, phosphates and arsenates.  
**Hazardous Decomposition Products:** Thermal decomposition may release oxides of sulfur and metal oxides.

**11. Toxicological Information**

**Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.  
**Acute Toxicity:** Oral LD<sub>50</sub>: >2,000 mg/kg, rat  
 Dermal LD<sub>50</sub>: No data available.  
 Inhalation LC<sub>50</sub>: No data available.  
**Skin Corrosion/Irritation:** No data available.  
**Serious Eye Damage/Irritation:** No data available.  
**Respiratory/Skin Sensitization:** No data available.  
**Germ cell Mutagenicity:** No data available.  
**Carcinogenicity:** No data available.  
**Reproductive Toxicity:** No data available.  
**STOT, SE:** May cause respiratory irritation. Based on available data, classification criteria are not met.  
**STOT, RE:** No data available.  
**Other Chronic Effects:** None known.

**12. Ecological Information**

**Persistence and Degradability:** No data available.  
**Bio-accumulative Potential:** No data available.  
**Mobility:** No data available.  
**Aquatic Toxicity:**

Test	Results	Comments
Fathead minnow ( <i>Pimephales, promelas</i> )	LC <sub>50</sub> : 2,820 mg/L, 96 hour	
Water flea ( <i>Daphnia magna</i> )	EC <sub>50</sub> : 343.6 mg/L, 48 hour	

**13. Disposal Considerations**

**Waste Disposal:** Disposal should be made in accordance with federal, state, and local regulations.

**14. Transport Information**

**US DOT:** Not regulated.  
**IATA:** Not regulated.  
**IMDG:** Not regulated.

**15. Other Regulatory Information**

**Inventory Status:** Components of this product are on the TSCA inventory or are exempt.

**US Regulations:**

SARA 302 EHS Chemicals: This product does not contain ingredients listed as an Extremely Hazardous Substance.  
 SARA (311/312) Hazard Categories: This product does not present any hazards.  
 SARA 313: This product does not contain ingredients on the List of Toxic Chemicals.  
 EPA CERCLA/Superfund Reportable Spill Quantity: This material does not contain any CERCLA regulated chemicals.  
 California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.



**16. Other Information**

**Abbreviations and Acronyms:** ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Service  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
EC<sub>50</sub>: Effective Concentration, half maximal  
EHS: Extremely Hazardous Substances  
EPA: Environmental Protection Agency  
GHS: Globally Harmonized System  
HMIS: Hazardous Materials Identification System  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods  
LC<sub>50</sub>: Lethal Concentration, half maximal  
LD<sub>50</sub>: Lethal Dose, half maximal  
mg/Kg: Milligrams per Kilogram  
mg/L: Milligrams per Liter  
mg/m<sup>3</sup>: Milligrams per Cubic Meter  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
OECD: Organization for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
PPE: Personal Protective Equipment  
REL: Recommended Exposure Limit  
SARA: Superfund Amendments and Reauthorization Act  
STOT, RE: Specific Target Organ Toxicity, Repeated Exposure  
STOT, SE: Specific Target Organ Toxicity, Single Exposure  
TSCA: Toxic Substances Control Act  
TWA: Time weighted average

**Additional Information:** HMIS (U.S.A.): Health 0, Flammability 0, Reactivity 0, Personal Protection b  
NFPA (U.S.A.): Health 0, Flammability 0, Reactivity 0

**Revisions:** Reviewed SDS, updated sections 11 and 15. (05/08/2019)  
**Supersedes:** March 20, 2015

**Prepared by: Michael Carlo**                      **Preparation date: May 8, 2019**

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End of SDS

