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## Fritz ProAquatics Mag Sulfate

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### SECTION 1: Product Information

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<b>Date Revised</b>	07/06/05
<b>Brand Name</b>	Fritz ProAquatics
<b>Product Name</b>	Mag Sulfate
<b>Common Name</b>	Magnesium Sulfate, heptahydrate; Epsom Salts
<b>Chemical Family</b>	Inorganic Salt
<b>Material Uses</b>	N/A
<b>NFPA (704) Rating</b>	Health: 1      Flammability: 0      Reactivity: 1      Special: 0

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### SECTION 2: Composition & Information on Ingredients

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<b>CAS Number</b>	7487-88-9
<b>% by Weight</b>	100
<b>OSHA PEL</b>	Not Established
<b>LC<sub>50</sub>/LD<sub>50</sub></b>	Not Established

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### SECTION 3: Hazards Identification

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<b>Emergency Overview</b>	White or transparent crystalline odorless powder. Noncombustible. At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated
<b>Eye Contact</b>	No known adverse effects expected, but dust may cause mechanical irritation.
<b>Skin</b>	No known adverse effects expected, but may cause minor skin irritation.
<b>Inhalation</b>	No known adverse effects expected, but may cause minor lung irritation.
<b>Ingestion</b>	Causes nausea, vomiting, abdominal cramps, and diarrhea.
<b>Chronic Exposure</b>	No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen

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### SECTION 4: First Aid Measures

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<b>Eye Contact</b>	Wash thoroughly with running water. Get medical advice if irritation develops
<b>Skin Contact</b>	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion** If large quantities of this material are swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

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## SECTION 5: Fire & Explosion Data

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**Flammability** This material is noncombustible.

**Explosion Hazards** Not considered to be an explosion hazard.

**Fire Fighting Media & Instructions** This material is compatible with all extinguishing media. The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, and self-contained breathing apparatus.

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## SECTION 6: Accidental Release Measures

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**Leak/Spill** Sweep, scoop or vacuum discharged material. Flush residue with water. Observe environmental regulations. Use a NIOSH-approved dust respirator where dust occurs. Observe OSHA regulations for respirator use (29C.F.R. Sec. 1910.134). Wear chemical goggles.

**Disposal** Landfill according to local, state, and federal regulations. Disposed material is not a RCRA hazardous waste.

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## SECTION 7: Handling and Storage

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**Handling** Avoid breathing dust. Promptly clean up spills.

**Storage** Keep containers closed. Protect from extremes of temperature and humidity during storage. Recommended storage conditions 68-110oF and 54-85% relative humidity.

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## SECTION 8: Exposure Controls/Personal Protection

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**Engineering Controls** Use with adequate ventilation. Safety shower and eyewash fountain should be within direct access.

**Personal Protection**  
**Skin:** Wear protective gloves and clan body-covering clothing.  
**Eye:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.  
**Respiratory:** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Personal Protection in case of Large Spill** N/A

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## SECTION 9: Physical & Chemical Properties

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**Physical State & Appearance** Transparent crystals or white powder; No odor

**Specific Gravity** 1.76 g/cm<sup>3</sup>

<b>Bulk Density</b>	1.05 g/cm <sup>3</sup>
<b>pH</b>	Approximately 6-7
<b>Solubility</b>	71g/100ml at 20°C, 91g/100ml at 40°C

### SECTION 10: Stability & Reactivity Data

<b>Stability</b>	Stable under ordinary conditions of use and storage.
<b>Incompatibilities</b>	Metal hydrides and other water reactive materials.
<b>Special Remarks on Reactivity</b>	At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

### SECTION 11: Toxicological Information

<b>Primary Routes of Exposure</b>	Inhalation, skin, ingestion, eyes
<b>Toxic Effects on Humans</b>	RTECS reports Oral TDLo = 428 mg/kg in men, 351 mg/kg in women
<b>Special Remarks on other Toxic Effects on Humans</b>	None

### SECTION 12: Transport Information

<b>DOT Classification</b>	Not restricted
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### SECTION 13: Other Regulatory Information & Classifications

<b>CERCLA</b>	No CERCLA Reportable Quantity has been established for this material.
<b>SARA Title III</b>	Not an Extremely Hazardous Substance under Sec. 302. Not a Toxic Chemical under Sec. 313. Hazardous Categories under Sec. 311/312; Acute
<b>TSCA</b>	All ingredients of this material are listed on the TSCA inventory.
<b>FDA</b>	Magnesium sulfate is authorized by FDA GRAS substance pursuant to 21 CFR 184.1443. However, Epsom salt, technical grade is not a suitable grade of magnesium sulfate for FDA regulated uses

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