
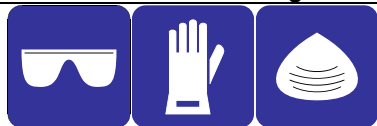


NFPA 	HCS Risk Phrases HCS CLASS:	Protective Clothing 
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Section I. Chemical Product and Company Identification

Common Name/ Trade Name	EPSOM SALT, MAGNESIUM SULFATE, U.S.P.	Revision Date: 9-11-08
Supplier	FRITZ INDUSTRIES, INC. 500 SAM HOUSTON ROAD MESQUITE, TX 75149 (972) 285-5471 (800) 955-1323	In Case of Emergency. (800) 424-9300 Week Days: (972) 285-5471 (800) 955-1323

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	OSHA PEL	LC ₅₀ /LD ₅₀
Magnesium sulfate, heptahydrate; Epsom Salt	10034-99-8	100	Not Established	Not Established

Section III. Hazards Identification

Emergency overview	White or transparent crystalline odorless powder. Noncombustible. At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated. Causes mild eye irritation.
Eye Contact	Causes mild irritation to the eyes.
Skin Contact	No known adverse effects.
Inhalation	Causes nausea, vomiting, abdominal cramps, and diarrhea.
Ingestion	Causes nausea, vomiting, abdominal cramps, and diarrhea.
Chronic Exposure	No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.
Physical Hazards	Spilled material can be slippery.

Section IV. First Aid Measures

Eye Contact	Flush thoroughly with running water for 15 minutes. Get medical advice if irritation develops.
Skin Contact	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
Inhalation	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.

Section V. Fire and Explosion Data

Flammability of the Product	This material is noncombustible.
Fire Fighting Media and 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.
Hazards to Fire Fighters	See Section III for information on hazards when this material is present in the area of a fire.
Fire Fighting Equipment	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.

Section VI. Accidental Release Measures

Personal Protection	Wear chemical goggles. See section VIII.
Environmental Hazards	Sinks and mixes with water. No adverse effects known. Not a listed toxic chemical under SARA Title III, §313 40 CFR Part 372. Not a CERCLA Hazardous Substance under 40 CFR Part 302.
Small Spill Cleanup	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.

MAGNESIUM SULFATE

Large Spill Cleanup	Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Sweep, scoop or vacuum discharged material. Flush residue with water. Observe environmental regulations.		
CERCLA RQ	There is no CERCLA Reportable Quantity for this material.		
Section VII. Handling and Storage			
Handling	Avoid breathing dust. Promptly clean up spills.		
Storage	Keep containers closed. Protect from extremes of temperature and humidity during storage. Recommended storage conditions 68-110°F and 54-85% relative humidity.		
Section VIII. Exposure Controls/Personal Protection			
Engineering Controls	Use with adequate ventilation. Safety shower and eyewash fountain should be within direct access.		
Personal Protection	<p><u>Skin</u>: Wear protective gloves and body-covering clothing.</p> <p><u>Eye</u>: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.</p> <p><u>Respiratory</u>: Use a NIOSH-approved dust respirator where dust occurs. Observe OSHA regulations for respirator use (29 C.F.R. Sec 1910.134). WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</p>		
Section IX. Physical and Chemical Properties			
Physical State and Appearance	Solid, Transparent crystals or white powder	odor:	Odorless
		color:	Transparent or white
Specific Gravity	1.76 g/cm ³ , Bulk Density approximately 1.05 g/cm ³		
pH	Approximately 6-7		
Solubility	71g/100ml at 20°C, 91g/100ml at 40°C		
Section X. Stability and Reactivity Data			
Stability	Stable under ordinary conditions of use and storage.		
Conditions to Avoid	None.		
Incompatibility with various substances	Metal hydrides and other water reactive materials.		
Hazardous Decomposition Products:	At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.		
Section XI. Toxicological Information			
Acute Data	When tested for primary irritation potential, this material caused mild eye irritation. RTECS report oral TDLo=428 mg/kg in man 351 mg/kg in women.		
Section XII. Ecological Information			
Eco Toxicity	Data not available.		
Environmental Fate	This material is not persistent in aquatic systems and does not contribute to BOD. It does not bioconcentrate up the food chain.		
Physical/Chemical	Sinks and mixes with water.		
Section XIII. Ecological Information			
Classification	Disposed material is not a hazardous waste.		
Disposal Method	Landfill according to local, state and federal regulations. Disposed material is not a RCRA Hazardous waste.		
Section XIV. Transport Information			
DOT Classification	This material is not regulated hazardous material.		
Section XV. Other Regulatory Information and Pictograms			
CERCLA	No CERCLA Reportable Quantity has been established for this material.		
SARA TITLE III	Not an Extremely Hazardous Substance under Sec. 302. Not a Toxic Chemical under Sec. 313. Hazardous Categories under Sec. 311/312: Acute		
TSCA	All ingredients of this material are listed on the TSCA inventory.		
FDA	Magnesium sulfate is an FDA GRAS substance pursuant to 21 CFR 184,1443.		
HMIS (U.S.A.)	 <p>① HEALTH ① FLAMMABILITY ① REACTIVITY ⓔ PROTECTIVE EQUIPMENT</p>	National Fire Protection Association (U.S.A.)	 <p>Health Fire Hazard Reactivity Specific Hazard</p>
Section XVI. Other Information			
<p>Notice to Reader: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Fritz Industries, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.</p>			