



# MATERIAL SAFETY DATA SHEET

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MSDS No. MM 130  
Effective Date March 23, 1999

## SECTION V HEALTH HAZARD DATA

MM 130

### Threshold Limited Value

None established. (ACGIH 1992-93).

### Effects of Overexposure

**TARGET ORGANS:** Lungs, central nervous system, gastrointestinal system. **INGESTION:** Catharsis, vomiting, gastrointestinal tract irritation. **EYES:** Only minor irritation likely; no corneal injury expected. **SKIN:** Only minor irritation likely. **INHALATION:** May cause respiratory irritation with sore throat and coughing.

### Emergency and First Aid Procedures

**EYES:** Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Protect from moisture. Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	None known.
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Hazardous Decomposition Products	Sulfur dioxide and sulfur trioxide at very high temperatures.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur		
		X

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Sweep up and place in a suitable container or dissolve in water and flush to sewer with copious amounts of water. Wash spill area with soap and water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.  Uncontaminated material may be disposed of in a sanitary landfill or contract with a licensed waste disposal service.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA approved dust mask or respirator.		
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Eye wash station, goggles, lab coat, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.  Avoid breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 8	Date 3/23/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	MAGNESIUM SULFATE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	0	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
Fire	0																	
Reactivity	0																	
Chemical Synonyms	(a) Epsom Salts.																	
Formula	(a) MgSO <sub>4</sub> ·7H <sub>2</sub> O (b) MgSO <sub>4</sub>																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	(a) 10034-99-8 (Hepta) (b) 7487-88-9 (Anhyd)																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Magnesium Sulfate	100%	None established.
<b>WARNING! MAY BE HARMFUL IF SWALLOWED OR INHALED.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	(a) (-H <sub>2</sub> O) 302°F (b) Dec. 2052°F	Specific Gravity (H <sub>2</sub> O = 1)	(a) 1.678 at 20°C (b) 2.65
Boiling Point (°F)	200°C (392°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Ac. = 1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	71 grams per 100 mL. water at 20°C.		
Appearance & Odor	Colorless crystals or crystalline powder; no odor. Hygroscopic.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20