



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. MM 143
Effective Date June 25, 1998

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established for this material (ACGIH 1992-93). Toxicity data:
Magnesium sulfate LD50: 5000 mg/kg (mouse)

Effects of Overexposure **INGESTION:** Magnesium sulfate - catharsis, vomiting. **SKIN AND EYES:** Mild irritant.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation develops or persists. **SKIN:** Flush affected area with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call a physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Strong oxidizers, reducing agents, combustible materials.

Hazardous Decomposition Products	Sulfur dioxide, sulfur trioxide
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur	Will Not Occur	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Absorb spill onto paper toweling, earth, sand or vermiculite. Scoop up and place in a suitable container for proper disposal. Flush spill area with soap and water.

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.

Dilute at least 40:1, flush to sanitary sewer if local regulations permit, or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH-approved respirator.

Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from oxidizing material, reducing agents, combustible material, fire hazards and heat sources. 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.

Use good laboratory safety practices.
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 1	Date 6/25/98	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 0.1M SOLUTION
Chemical Synonyms	Magnesium Sulfate Aqueous Solution
Formula	Mixture
Unit Size	up to 1 liter
C.A.S. No.	Mixture

CHEMTREC
800-424-9300
Day 716-226-6177

Health	1
Fire	0
Reactivity	3

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Magnesium Sulfate: (CAS No. 7487-88-9)	1.2%	Not established.
Water: (CAS No. 7732-18-5)	98.8%	Not established.

CAUTION! CONTACT MAY CAUSE IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes below 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	84-90%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	All solutions are clear, colorless, water like liquids; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water of solution hazardous decomposition products may be produced as dust or fume. In fire conditions resulting in the evaporation of the water of solution, Calcium Nitrate and Potassium Nitrate are active oxidizing materials. In contact with easily oxidizable substances they may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance.

D.O.T. **NON-REGULATED.**

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