



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. MM 50
Effective Date March 16, 1998

SECTION V HEALTH HAZARD DATA

MM 50

Threshold Limited Value

None established. (ACGIH 1992-93). RTEC No. OM2975000
Toxicity Data: Oral-rat LD50 8100 mg/kg.

Effects of Overexposure

INGESTION: Upset stomach, possibly nausea and vomiting. **EYES:** Slightly irritating and may cause minor transient corneal injury. **SKIN:** Prolonged or repeated exposure may cause minor irritation. **SKIN:** Not likely to be absorbed in toxic amounts. **INHALATION:** Dust may be irritating, but not likely to cause injury.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X

Incompatibility (Materials to Avoid)
Solutions can be aggressively corrosive to metals.

Hazardous Decomposition Products
Magnesium oxide and Hydrogen chloride at temperatures well over 1400°C.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Recover for use if not contaminated. Small spills: Dissolve in water and flush to sewer with copious amounts of 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. Uncontaminated material may be disposed of in a sanitary landfill or flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

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

Protective Gloves
Rubber.

Eye Protection
Chemical safety glasses.

Other Protective Equipment
Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Store in a cool, dry place. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.

Magnesium Chloride hexahydrate is hygroscopic. Keep in tightly sealed container to avoid moisture pick-up. Also releases heat when dissolved in water (90BTU/1 g). Remove and wash contaminated clothing.

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

Revision	No. 4	Date	3/16/98	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 CHLORIDE
Chemical Synonyms	Magnesium Chloride, Hexahydrate
Formula	MgCl ₂ •6H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	7791-18-6

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

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

Health	1
Fire	0
Reactivity	1

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Magnesium Chloride, Hexahydrate	100%	None established.
CAUTION! VERY DELIQUESCENT. IRRITANT.		
KEEP CONTAINER TIGHTLY CLOSED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	(-H ₂ O) at 116°C (241°F)	Specific Gravity (H ₂ O = 1)	1.56
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Ac. =1)	Non-volatile.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	54 grams per 100 mL. water at 20°C.		
Appearance & Odor	Colorless or white crystalline powder, crystals, flakes; no odor.		

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may cause production of hazardous decomposition products.

D.O.T. NON-REGULATED.

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