



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. MM 96  
Effective Date November 10, 1998

## SECTION V HEALTH HAZARD DATA

MM 96

### Threshold Limited Value

None established. (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** Dust or mist may cause local irritation. **INGESTION:** May cause diarrhea and perhaps catharsis. Some extreme cases may show cyanosis (blue skin) and falling blood pressure, indicated by headache, flush skin, vomiting, dizziness. **SKIN:** Concentrated aqueous solution or dust may cause local irritation. **EYES:** May cause local irritation.

### Emergency and First Aid Procedures

**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. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** Remove to fresh air. If discomfort or illness develops, get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature to cause evaporation.
	Stable		

Incompatibility (Materials to Avoid)	Reducing agents, oxidizable and combustible materials. Examples: Easily oxidizable organics, aluminum dust, cyanides.
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Hazardous Decomposition Products	Toxic nitric acid fumes and sometimes nitrogen tetroxide are reported. Also may yield hazardous mist in range 110°-330°C (230°-626°F).
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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	Flush the aqueous solution down drain with plenty of 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.
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Flush the aqueous solution down drain with plenty of water.

## 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/MSHA-approved respirator.			
Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.
Protective Gloves	Rubber - may cause irritation on long exposure.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves.			

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool 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.
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Avoid contact with skin and eyes. 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	11/10/98	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 NITRATE 0.1 MOLAR AQ. SOL'N	<div><p>CHEMTREC <b>800-424-9300</b> Day 716-226-6177</p><div><p>NFPA HAZARD RATING</p><table><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></div><p>HMIS *</p><table><tr><td>Health</td><td>2</td></tr><tr><td>Fire</td><td>0</td></tr><tr><td>Reactivity</td><td>1</td></tr></table></div>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	0																	
Reactivity	1																	
Chemical Synonyms	Magnesium Nitrate, Water Solution																	
Formula	Mixture. See Section II.																	
Unit Size	up to 4 Lt.																	
C.A.S. No.	Mixture. See Section II.																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Magnesium Nitrate: (CAS No. 10377-60-3)	1.48%	None established.
Water: (CAS No. 7732-18-5)	98.52%	None established.

WARNING! HARMFUL IF SWALLOWED.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	98.52%
Vapor Pressure (mm Hg)	14 (water).	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water).		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	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

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water solution, Magnesium Nitrate is an active oxidizing material. In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance. Yields toxic gaseous oxides of nitrogen when involved in fire.

D.O.T. NON-REGULATED.

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