



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. MM 90  
Effective Date November 10, 1998

## SECTION V HEALTH HAZARD DATA

MM 90

### Threshold Limited Value

RTECS No. OM3756000  
None established. (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** Dust or mist may cause local irritation. **INGESTION:** May cause diuresis 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

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush with water, then wash with 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 one or two glasses of water to drink, induce vomiting. Repeat until vomit fluid is clear. Call physician. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Temperatures of 330°C and over. (Anhydrous form decomposes there.)
	Stable	X		

Incompatibility (Materials to Avoid)	Reducing agents, oxidizable and combustible materials. Examples: Easily oxidizable organics, aluminum dust, cyanides.
--------------------------------------	-----------------------------------------------------------------------------------------------------------------------

Hazardous Decomposition Products	Toxic nitric acid fumes and sometimes nitrogen tetroxide are reported. Also may yield hazardous mist in range 110-330°C.
----------------------------------	--------------------------------------------------------------------------------------------------------------------------

Hazardous Polymerization	Conditions to Avoid	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. Sweep up and place in suitable container for proper disposal. Label "Oxidizer".
-----------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------

### 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. Small quantities may be disposed of by flushing into sewer or if uncontaminated may be disposed of in a sanitary landfill.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

Ventilation	Local Exhaust	Not needed.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
-------------------	---------	----------------	--------------------------

Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, fire extinguisher.
----------------------------	----------------------------------------------------------------------------

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from combustible materials, heat, sparks, or open flames. 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 contact with skin and eyes.  
Remove and wash contaminated clothing promptly.

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

Revision No. 5	Date 11/10/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
----------------	---------------	--------------------------	--------------------------------

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	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4						
Chemical Synonyms	Magnesium Nitrate, Hexahydrate							
Formula	Mg(NO <sub>3</sub> ) <sub>2</sub> •6H <sub>2</sub> O							
Unit Size	up to 2.5 Kg.							
C.A.S. No.	13446-18-9	<table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>3</td> </tr> </table>	Health	2	Fire	0	Reactivity	3
Health	2							
Fire	0							
Reactivity	3							

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Magnesium Nitrate, Hexahydrate	100%	None established.

**DANGER! STRONG OXIDIZER! HARMFUL IF SWALLOWED.**

**CONTACT WITH OTHER MATERIALS MAY CAUSE FIRE.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	95°C (203°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.464 at 25°C
Boiling Point (°F)	Decomposes @ 330°C (626°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Water vapor only.	Evaporation Rate (n-Butyl Ac. = 1)	Non-volatile (NA).
Vapor Density (Air=1)	Water vapor only.		
Solubility in Water	44 grams per 100 mL. water at 20°C.		
Appearance & Odor	White or colorless crystals; 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
				-----	-----

Extinguisher Media	Water spray; carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC).
--------------------	---------------------------------------------------------------------

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Avoid splattering molten material. Flood with large amounts of water in early stages.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

**STRONG OXIDIZER!** Contact with other materials may cause fires. Fire or excessive heat may produce hazardous decomposition products. Greatly increases burning rate of combustible materials.

D.O.T.	MAGNESIUM NITRATE, 5.1, UN 1474, PG III
--------	-----------------------------------------

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