



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. MM170
Effective Date March 24, 1999

SECTION V HEALTH HAZARD DATA

MM 170

Threshold Limited Value None established by (ACGIH 1992-93). TXDS: Oral-rat LD50: 1310 mg/kg; IRDS: Skn-rbt 500 mg/24 H MLD, eye-rbt 100 mg SEV.

Effects of Overexposure
SKIN: Strong skin irritant on contact. **EYES:** Strong eye irritant on contact and may cause burns. **INHALATION:** Dust may cause upper respiratory tract irritation. **INGESTION:** No data available. Moderately toxic; when dissolved in water it is a strong acid.

Emergency and First Aid Procedures
SKIN: Flush with water for 15 minutes. Follow by washing with mild soap and water. **INGESTION:** If swallowed, if conscious, give milk or water to drink. Call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **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	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers, alkalies.

Hazardous Decomposition Products Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.

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

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Ventilate area. Avoid creating dust. Sweep up and place in a suitable container for disposal by incineration. Wash spill area well 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. Dispose of in an approved incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Work in fume hood or if dusty conditions prevail, wear NIOSH/MSHA-approved dust mask.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

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

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from strong oxidizing materials. 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 eyes, skin and clothing. Avoid breathing dust. Use with adequate ventilation. Wash contaminated clothing before reuse.

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

Revision No. 6	Date 3/24/99	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	MALONIC ACID	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS *	Health	1
Chemical Synonyms	Propanedioic Acid, Dicarboxylic Acid		Fire	1
Formula	CH ₂ (COOH) ₂		Reactivity	1
Unit Size	up to 500 grams			
C.A.S. No.	141-82-2			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Malonic Acid	100%	None established.

WARNING! STRONG IRRITANT TO EYES, SKIN AND MUCOUS

MEMBRANES. MAY BE HARMFUL IF INHALED OR SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	134-137°C decomposes.	Specific Gravity (H₂O = 1)	1.63-1.67 at 20°C
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	3.6		
Solubility in Water	154 grams per 100 mL. water at 20°C.		
Appearance & Odor	Small flat, white crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	171.11°C (340°F).	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media Water spray; carbon dioxide (CO₂); dry chemical.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react with oxidizing materials.

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

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