



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. MM 146  
Effective Date November 10, 1998

## SECTION V HEALTH HAZARD DATA

MM 146

**Threshold Limited Value** Toxicity data: Maleic Acid Anhydride orl-rat LD50: 3800 mg/kg.  
Wool fat (Lanolin) is considered non-toxic (LD50: >64 cc/kg).

**Effects of Overexposure** May be harmful if swallowed. May be irritating to eyes, skin and mucous membranes following prolonged contact. Local sensitization may occur. Material not likely to be toxic by ingestion due to trace amounts of Maleic Acid Hydrazide. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**  
**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation or redness develops, get medical attention. **INHALATION:** Remove to fresh air.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** May react with strong oxidizers, alkali metals, strong bases, amines.

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

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Let solidify or absorb onto paper, sand, earth, vermiculite or other absorbent material and place in a suitable container for proper disposal.

**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.

Base material is a natural product with trace amounts of growth hormone. Material may be disposed as an inert solid waste if local regulations allow. Alternate disposal method is incineration.

## 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.

<b>Ventilation</b>	<b>Local Exhaust</b>	None needed.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	None needed.	<b>Other</b>	No.

**Protective Gloves** Rubber if sensitive. **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, dry place away from strong oxidizing agents, and away from open flames or other 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.

Avoid contact with eyes, skin and clothing. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 3	<b>Date</b> 11/10/98	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	MALEIC ACID HYDRAZIDE 0.5% IN PASTE (0.0025%)	 <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  <b>HMIS *</b> HEALTH FIRE REACTIVITY 1 1 0
<b>Chemical Synonyms</b>	1,2 Dihydro-3,6-Pyridazinedione	
<b>Formula</b>	Mixture. See Section II.	
<b>Unit Size</b>	up to 4 Lt.	
<b>C.A.S. No.</b>	Mixture. See Section II.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Maleic Acid Hydrazide: (CAS No. 123-33-1)	0.0025%	None established.
Lanolin: (CAS No. 8006-54-0)	99%	None established.
Ethyl Alcohol: (CAS No. 64-17-5)	0.25%	1000 ppm, 1900 mg/m <sup>3</sup>
Water: (CAS No. 7732-18-5)	0.25%	None established.

**WARNING! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	38°-42°C (100°-107°F) (Paste)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Less than 1.
<b>Boiling Point (°F)</b>	Decomposes at 175°C (347°F)	<b>Percent Volatile by Volume (%)</b>	None.
<b>Vapor Pressure (mm Hg)</b>	Negligible.	<b>Evaporation Rate ( =1)</b>	None.
<b>Vapor Density (Air=1)</b>	No data.		
<b>Solubility in Water</b>	Wool fat is insoluble. Maleic Acid Hydrazide has low solubility in water.		
<b>Appearance &amp; Odor</b>	Yellowish, tenacious semisolid fat; slight odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	237.7°C (460°F) CC	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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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 and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Avoid open flames or sparks, material is a moderate fire hazard.

Autoignition Temperature: 445°C (833°F)

D.O.T. NON-REGULATED.

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