



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. MM 595  
Effective Date April 1, 1999

## SECTION V HEALTH HAZARD DATA

MM 595

**Threshold Limited Value** Methanol TWA: (skin) 262 mg/m<sup>3</sup>; STEL: 328 mg/m<sup>3</sup>. Isopropyl alcohol: TWA: 983 mg/m<sup>3</sup>; STEL: 1230 mg/m<sup>3</sup>. Methyl Isobutyl Ketone TWA: 205 mg/m<sup>3</sup>; STEL: 307 mg/m<sup>3</sup>. (AIR). a-Naphthol: TXDS: Oral-rabbit LD50: 880 mg/kg. IRDS: eye-rbt 1 mg SEV.

**Effects of Overexposure** **TARGE ORGANS AFFECTED:** Eyes, central nervous system, liver, kidneys. **INGESTION:** Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting, inability to concentrate and irritation of the throat. **SKIN CONTACT:** Irritation and defatting of skin on prolonged contact. **EYE CONTACT:** May cause blindness.

**Emergency and First Aid Procedures** **INGESTION:** Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give oxygen. Obtain medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature, heat, fire and ignition source. Protect from light.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Darkens on exposure to light. Strong oxidizing materials. Strong bases, halogenated materials, acid chlorides, acid anhydrides.

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

<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** Remove all sources of ignition, provide adequate ventilation. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb with an inert dry material and place in a suitable container for disposal. Wash spill area 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 agency.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>Adequate to maintain below exposure limit.</b>

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

**Other Protective Equipment** Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry well-ventilated place away from oxidizing materials and fire hazards. 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. Protect from light. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Do not take internally. Avoid inhalation. 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. 7	<b>Date</b> 4/1/99	<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>	MOLISCH'S REAGENT	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <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> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Fire</td> <td>4</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	3	Fire	4	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	3																	
Fire	4																	
Reactivity	2																	
<b>Chemical Synonyms</b>	Molisch Test Solution																	
<b>Formula</b>	Mixture*																	
<b>Unit Size</b>	up to 3.785 Lt.																	
<b>C.A.S. No.</b>	Mixture. See Section II.																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
-Naphthol: (CAS No. 90-15-3)	5%	None established.
* Ethyl Alcohol: (CAS No. 64-17-5)	95%	TWA: 1000 ppm; 1880 mg/m <sup>3</sup>

**DANGER! FLAMMABLE LIQUID! HARMFUL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	-113°C (-173°F)*	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	0.794 @ 60°F
<b>Boiling Point (°F)</b>	75-80°C (163-174°F)	<b>Percent Volatile by Volume (%)</b>	100%
<b>Vapor Pressure (mm Hg)</b>	Ca 42 @ 68°F	<b>Evaporation Rate (n-Butyl Alc. =1)</b>	4.1
<b>Vapor Density (Air=1)</b>	Ca 1.59		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, colorless, mobile liquid; mild characteristic odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	14°F (57°C) (Alc.)	<b>Flammable Limits in Air % by Volume</b>	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
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**Extinguisher Media** Water spray; carbon dioxide (CO<sub>2</sub>); dry chemical; alcohol-type, or universal-type foams.

**SPECIAL FIREFIGHTING PROCEDURES** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

\* **Denaturants:** Auto-ignition temperature: 363°C (685°F)  
Methanol: (CAS No. 67-56-1)  
Methyl Isobutyl Ketone: (CAS No. 108-10-1)  
Isopropyl alcohol: (CAS No. 67-63-0)

**UNUSUAL FIRE AND EXPLOSION HAZARDS** Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at location distant from handling point. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

D.O.T. DENATURED ALCOHOL, (SOLUTION), 3, NA 1987, PG II

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