



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. NN 233  
Effective Date May 22, 1998

## SECTION V HEALTH HAZARD DATA

NN 233

**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>.

**Effects of Overexposure** **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 thoroughly 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. Get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>
	<b>Stable</b>	X	

**Incompatibility (Materials to Avoid)** Concentrated nitric or sulfuric acid; contact with Acetyl chloride and strong oxidizing agents may react violently.

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

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

## 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.

**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 accordance with federal, state and local regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** For normal laboratory use at room temperatures none should be needed with adequate room ventilation. If required work in fume hood. Do not use in confined area.

<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 area. Keep away from heat, sparks and flame. Use with adequate ventilation. Do not take internally.  
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.

Wash thoroughly after handling.  
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. 2	<b>Date</b> 5/22/98	<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. Employees 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>	Ninhydrin 0.5%	<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>	N/A																	
<b>Formula</b>	Mixture.																	
<b>Unit Size</b>	up to 20 Lt.																	
<b>C.A.S. No.</b>	Mixture.																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
*Ethyl Alcohol, denatured: (CAS No. 64-17-5)	99.5%	TWA: 1000 ppm; 1880 mg/m <sup>3</sup>
Ninhydrin: (CAS No. 485-47-2)	0.5%	None-established

**DANGER! FLAMMABLE. HARMFUL IF SWALLOWED.**

## 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 44.6 @ 68°F *	<b>Evaporation Rate (Butyl Acetate =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°C (57°F) TCC.	<b>Flammable Limits in Air % by Volume</b>	Lower	Upper
		Pure Ethyl Alc.	3.3 (Et. Alc.)	19.0 (Et. Alc.)
<b>Extinguisher Media</b>	Water spray, carbon dioxide; dry chemical; alcohol-type, or universal-type foams.			

### SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece and protective clothing. Water spray may be used to keep fire exposed containers cool.  
Autoignition Temperature: 363°C (685°F)

\*Methyl Alcohol: (CAS No. 67-56-1)  
Methyl Isobutyl Ketone: (CAS No. 108-10-1)  
Isopropyl alcohol: (CAS No. 67-63-0)

\* For Pure Ethyl Alcohol

### 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