



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. AA 33  
Effective Date January 14, 1999

## SECTION V HEALTH HAZARD DATA

AA 30

**Threshold Limited Value** TWA: 200 ppm; 180 mg/m<sup>3</sup>. STEL: 150 ppm, 270 mg/m<sup>3</sup>  
(ACGIH 1992-93). Oral LD50 rat: 19 g/Kg.

**Effects of Overexposure** **INHALATION:** Causes irritation of nasal passages and throat. Can cause pulmonary edema. Signs and symptoms can be delayed for several hours. Can cause nausea, vomiting, headache, mental sluggishness and unconsciousness. **EYES:** Can cause severe injury. Vapors cause burning and tearing. Can cause blurred vision. **SKIN:** Can cause moderate injury, sensitization can occur. **INGESTION:** Can cause nausea, vomiting, headache, slow mental response and loss of consciousness with severe damage to mouth, throat and stomach.

**Emergency and First Aid Procedures** **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get emergency medical attention. **SKIN:** Remove contaminated clothing, then wash with large amounts of water. If irritation persists, contact a physician. **EYES:** Flush thoroughly with water for at least 15 minutes. Get immediate medical attention. **INGESTION:** If conscious, give water or milk, induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>	X	<b>Conditions to Avoid</b>	Excessive temperature, heat, spark or flame.
	<b>Stable</b>			

**Incompatibility (Materials to Avoid)** Air, oxygen, nitric acid, peroxides and other oxidizing agents, caustic soda, soda ash and other strong alkalis, amines, acids, ammonia.

**Hazardous Decomposition Products** Carbon monoxide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Oxidizes readily in air to form unstable peroxides. Easily undergoes polymerization which is accompanied by heat.
	<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** Eliminate ignition sources. Caution spontaneous polymerization can occur. Place leaking containers in well ventilated area with spill containment. If fire potential exists blanket spill with alcohol-type aqueous film-forming foam or use water spray to disperse vapors. Contain spill to facilitate clean-up. Clean-up methods may include absorbent materials. Avoid run-off into storm sewers and ditches which lead to natural waterways.

**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)** Wear a NIOSH/MSHA-approved 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>No</b>

**Protective Gloves** Neoprene or rubber **Eye Protection** Chemical safety glasses

**Other Protective Equipment** Eye wash station, proper gloves, lab coat, face shield, fire extinguisher.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, well ventilated area. Keep away from heat, sparks and flame.  
Store in a cool, dry area away from heat, sparks or flame. 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, eyes and clothing. Avoid breathing vapors. Use with adequate ventilation. 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> 1/14/99	<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>	ACETALDEHYDE	 <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>2</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	2	Fire	4	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	4																	
Reactivity	2																	
<b>Chemical Synonyms</b>	Acetic aldehyde, ethyl aldehyde, ethanal																	
<b>Formula</b>	CH <sub>3</sub> CHO																	
<b>Unit Size</b>	up to 4 Lt																	
<b>C.A.S. No.</b>	75-07-0																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetaldehyde	99.5%	100 ppm (Air)

**DANGER! EXTREMELY FLAMMABLE! CAUSES**

**IRRITATION. HARMFUL IF SWALLOWED OR INHALED.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	-123.5°C (-190°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	0.7778 @ 20/20°C
<b>Boiling Point (°F)</b>	20.8°C (69°F)	<b>Percent Volatile by Volume (%)</b>	100%
<b>Vapor Pressure (mm Hg)</b>	750 mm Hg @ 20°C	<b>Evaporation Rate (n-Butyl Acetate =1)</b>	49
<b>Vapor Density (Air=1)</b>	1.52		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, colorless, mobile liquid with strong, pungent, fruity odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	-38°C (-36°F) TCC	<b>Flammable Limits in Air % by Volume</b>	<b>Lower</b>	<b>Upper</b>
			4	60

**Extinguisher Media** Dry chemical, foam, carbon dioxide

### SPECIAL FIREFIGHTING PROCEDURES

If potential for exposure to vapors or products of combustion exists, wear a NIOSH/MSHA self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Water spray can be used to reduce intensity of flames and to dilute spills to nonflammable mixture.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Rapid, uncontrolled polymerization can cause explosion. Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback.

D.O.T. Acetaldehyde, 3, UN 1089, PG I

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