



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
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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

Stability	Unstable	X	Conditions to Avoid	Excessive temperature, heat, spark or flame.
	Stable			

Incompatibility (Materials to Avoid)	Air, oxygen, nitric acid, peroxides and other oxidizing agents, caustic soda, soda ash and other strong alkalis, amines, acids, ammonia.
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Hazardous Decomposition Products		Carbon monoxide.
Hazardous Polymerization		Conditions to Avoid  Oxidizes readily in air to form unstable peroxides. Easily undergoes polymerization which is accompanied by heat.
May Occur	Will Not Occur	
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.
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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.
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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.			
Ventilation	Local Exhaust	Recommended	Special	No
	Mechanical (General)	Recommended	Other	No
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.
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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.

Revision	No. 3	Date	1/14/99	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	ACETALDEHYDE
Chemical Synonyms	Acetic aldehyde, ethyl aldehyde, ethanal
Formula	CH <sub>3</sub> CHO
Unit Size	up to 4 Lt
C.A.S. No.	75-07-0

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CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health 2  
Fire 4  
Reactivity 2  
HMIS \*  
3 4

## 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

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

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-38°C (-36°F) TCC	Flammable Limits in Air % by Volume	Lower	Upper
			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