



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. AA 10  
Effective Date January 11, 1999

## SECTION V HEALTH HAZARD DATA

AA 10

**Threshold Limited Value** For Glacial Acetic Acid: TWA: 10 ppm or 25 mg/m<sup>3</sup>  
STEL: 15 ppm or 37 mg/m<sup>3</sup> (ACGIH 1992-93).

**Effects of Overexposure** Contact may cause irritation to skin and eyes. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**  
**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If conscious, give water or milk to drink. Get medical attention. Never give anything by mouth to an unconscious person.

## 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)** Reacts with metals to produce hydrogen gas.

**Hazardous Decomposition Products** None expected.

<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** Neutralize acid spill using Soda Ash or Sodium Bicarbonate. Absorb with an inert dry material, sweep up and place in an appropriate 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.  
Dispose of in accordance with federal, state and local regulations.

## 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>	<b>Recommended.</b>	<b>Special</b>	No.
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	No.

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

**Other Protective Equipment** Smock, apron, safety glasses, proper gloves, eye wash station, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool place. 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 and eyes. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.  
Revision No. 4 Date 1/11/99 Approved Michael Raszeja  
Chemical Safety Coordinator MR

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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	ACETIC ACID, 1.0 NORMAL SOLUTION	 <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 1 Fire 0 Reactivity 1
<b>Chemical Synonyms</b>	Ethanoic Acid, 1.0 Normal	
<b>Formula</b>	Mixture.	
<b>Unit Size</b>	up to 4 Lt.	
<b>C.A.S. No.</b>	Mixture.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetic Acid, Glacial: (CAS No. 64-19-7)	5.9%	10 ppm.
Water: (CAS No. 7732-18-5)	94.1%	None established.

CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES.

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Freezes 0°C (32°F).	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.00
<b>Boiling Point (°F)</b>	Approx. 100°C (212°F)	<b>Percent Volatile by Volume (%)</b>	94.1%
<b>Vapor Pressure (mm Hg)</b>	Glacial Acetic Acid 11.7	<b>Evaporation Rate (Ether = 1)</b>	Greater than 1.
<b>Vapor Density (Air=1)</b>	Glacial Acetic Acid 2.07		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, colorless liquid; vinegar-like odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Use any media suitable for extinguishing supporting fire.

## SPECIAL FIREFIGHTING PROCEDURES

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

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight fire hazard when exposed to heat or flames, may produce hazardous decomposition products. Acetic acid solutions can react with metals to liberate hydrogen gas.

D.O.T. NON-REGULATED.

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