



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

221 Rochester Street
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MSDS No.: AA0015
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Acetic Acid, 0.1M (0.1N) Solution
Chemical Synonyms	Ethanoic Acid, Water Solution
Formula	Mixture.
Unit Size	up to 2.5 Lt.
C.A.S. No.	Mixture.

CHEMTREC
800-424-9300
Day 585-226-6177

NFPA

Health	1
Fire	0
Reactivity	1

HMIS*

MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

HAZARD RATING

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetic acid, glacial: (CAS No. 64-19-7)	0.59%	TWA: 10 ppm STEL: 15 ppm
Water: (CAS No. 7732-18-5)	99.41%	None established.

CAUTION!

AVOID CONTACT WITH SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes @ approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	> 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; vinegar-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use carbon dioxide, dry chemical, alcohol foam.				

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air. Slight fire hazard when exposed to heat or flame. Fire or excessive heat may produce hazardous decomposition products.

SECTION V HEALTH HAZARD DATA AA0015

Threshold Limited Value	None established for this mixture. (ACGIH 2001) Toxicity data: orl-rat LD50: 3.3 g/kg. (Acetic acid, glacial).
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Effects of Overexposure	Contact may cause irritation to skin and eyes. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.
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Emergency and First Aid Procedures	INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Avoid excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Oxidizing agents, for example, hydrogen peroxide, nitric acid, perchloric acid or chromium trioxide; strong alkalies such as sodium hydroxide.
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Hazardous Decomposition Products	Dangerous; when heated to decomposition, emits toxic and corrosive fumes of carbon monoxide and/or carbon dioxide.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

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 a suitable container for disposal. Wash spill area with soap and water.
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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. Dispose of in an approved chemical landfill or contract with a licensed chemical waste disposal agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved respirator.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety goggles.
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Other Protective Equipment	Faceshield, lab coat, apron, vented hood, proper gloves, fire extinguisher, eye wash station.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a well-ventilated area. Wash thoroughly after handling. Keep container tightly closed when not in use.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
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Avoid contact with eyes, skin and clothing. Remove and wash contaminated clothing.

Revision No.	3	Date	01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator	JAB
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D.O.T. NON-REGULATED.

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