



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. SS 1121  
Effective Date March 3, 1998

## SECTION V HEALTH HAZARD DATA

SS 1121

### Threshold Limited Value

None established for this mixture. For Sulfuric Acid:  
TWA: 1 mg/m<sup>3</sup>, STEL: 3 mg/m<sup>3</sup> (ACGIH 1992-93).

### Effects of Overexposure

May be harmful if swallowed. Contact may cause irritation to skin, eyes and mucous membranes. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**SKIN:** Flush thoroughly with water for 15 minutes while removing contaminated clothing. **INGESTION:** If swallowed, do **NOT** induce vomiting. If conscious, drink large quantities of milk or water. Get immediate medical attention. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Attacks many metals, bases. Reacts with alkalies.
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Hazardous Decomposition Products	When heated to decomposition, may release sulfur dioxide fumes.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Neutralize with sodium bicarbonate (soda ash) and flush to sewer with copious amounts of 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.
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Flush neutralized acid to sewer with copious amounts of water.

## 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.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not get in eyes, on skin or on clothing.  
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 7	Date	3/03/98	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	SULFURIC ACID AQUEOUS SOLUTION
Chemical Synonyms	(1.0 Normal) (0.5 Molar)
Formula	Mixture. See Section II.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

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

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

Health	2
Fire	0
Reactivity	1

HMIS \*  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sulfuric Acid: (CAS No. 7664-93-9)	2.62%	See Section V.
Water: (CAS No. 7732-18-5)	97.38%	None established.
<b>WARNING! CORROSIVE! MAY BE HARMFUL IF</b>		

**SWALLOWED. MAY CAUSE SKIN IRRITATION.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	97.38%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear colorless liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	If involved in a fire situation use water spray.
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### SPECIAL FIREFIGHTING PROCEDURES

These solutions are very dilute. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing and eye protection.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 157)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Attacks many metals, releasing hydrogen. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with alkali materials.

D.O.T. SULFURIC ACID, 8, UN 2796, PG II

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