



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. SS 1130  
Effective Date May 19, 1999

## SECTION V HEALTH HAZARD DATA

SS 1130

### Threshold Limited Value

TWA: 2 ppm 5.2 mg/m<sup>3</sup> STEL: 5 ppm 13 mg/m<sup>3</sup> (ACGIH 1992-93).

### Effects of Overexposure

**INGESTION:** Causes severe burning pain in the mouth and abdomen, followed by nausea, vomiting, diarrhea. Irritation and corrosion of the gastrointestinal tract. **INHALATION AS MIST:** Gas released from solution extremely irritating above 5ppm, causing sneezing, coughing, sore nose and throat. May cause irritation and corrosion of tissues known as cold burns. **SKIN:** Contact causes irritation and burns. **EYES:** May cause irritation, redness, burns.

### 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, give large quantities of milk or water to drink. 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)	Strong bases, Oxidizers, Halogens and Acetylides.
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Hazardous Decomposition Products	Dangerous when heated to decomposition, it emits highly toxic fumes of sulfur dioxide (SO <sub>2</sub> ).
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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	Wear protective safety equipment and clothing. Ventilate area of spill. Neutralize spill with soda ash, sodium bicarbonate or lime. Scoop up and place in a suitable container for proper disposal.
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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.  Neutralize with soda ash and flush to sewer with copious amounts of water.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		Work in ventilation hood. Wear a NIOSH/MSHA-approved respirator fixed with an acid type cartridge or a self-contained breathing apparatus.			
Ventilation	Local Exhaust	Recommended.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
Protective Gloves		Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, face shield, smock, apron, eye wash station, proper gloves, ventilation hood.				

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Do not heat solution. Open bottle slowly under ventilation hood. Store in a cool well-ventilated place, as increase in temperature lowers the solubility of sulfur dioxide in water. 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.  Avoid contact with skin, eyes, mucous membranes and clothing. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 3	Date	5/19/99	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	SULFUROUS ACID, 6%
Chemical Synonyms	Sulfur dioxide solution
Formula	H <sub>2</sub> SO <sub>3</sub>
Unit Size	up to 20 Lt.
C.A.S. No.	7782-99-2

0  
3  
0

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

NFPA  
HAZARD RATING

LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health 3  
Fire 0  
Reactivity 0

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sulfurous Acid: (CAS No. 7782-99-2)	6%	See Section V.
Water: (CAS No. 7732-18-5)	94%	None established.

**DANGER! CORROSIVE! SEVERE IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.**

**MAY BE HARMFUL IF SWALLOWED OR INHALED.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.03
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Ether = 1)	> 1
Vapor Density (Air=1)	N/A		
Solubility in Water	Very Soluble.		
Appearance & Odor	Clear colorless liquid; pungent, suffocating sulfur odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Dry chemical (ABC) on the acid. Water on nearby combustibles.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full firefighting protective clothing to prevent contact with skin or eyes.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

FIRE: Non-combustible. Will extinguish fire. When heated will form a corrosive acidic mist with water fog or steam.

D.O.T. SULFUROUS ACID, 8, UN 1833, PG II

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