



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 290  
Effective Date March 5, 1998

## SECTION V HEALTH HAZARD DATA

SS 290

### Threshold Limited Value

None established. Estimated human oral lethal dose is 10 to 30 grams.  
Acute Oral LD<sub>50</sub> Rat (M) 1903 mg/kg; Eye irritation Rabbit - severe irritation.

### Effects of Overexposure

**INGESTION:** May be fatal if swallowed. Headache, nausea, vomiting, dizziness, gastrointestinal irritation. **EYES:** Contact with powder may cause severe burns. **SKIN:** Prolonged or repeated skin contact may cause skin irritation and/or burns. **INHALATION:** Dust may cause upper respiratory tract irritation.

### Emergency and First Aid Procedures

**INGESTION:** If swallowed, do NOT induce vomiting. If conscious, drink large quantities of water. Follow with milk of magnesia, vegetable oil, or beaten eggs. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Immediately flush skin with plenty of water for at least 15 minutes and get medical attention if symptoms are present after washing. **INHALATION:** Remove to fresh air and get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Moisture - sulfuric acid is liberated on contact. Excessive temperature and heat.
	Stable		

Incompatibility (Materials to Avoid)	Alkalies and strong oxidizers and permanganates.
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Hazardous Decomposition Products	When heated to decomposition emits 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	Wearing proper safety equipment and using adequate ventilation, sweep up and place in a suitable container for proper disposal. Dissolve in water, neutralize with 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.  Dissolve in water, 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)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA approved dust mask or 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, dry 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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The aqueous solutions are strongly acid. Hygroscopic. Avoid contact with eyes, skin and 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. 5	Date	3/5/98	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	SODIUM BISULFATE	 CHEMTREC 800-424-9300 Day 716-226-6177  NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  HMIS * 3 0 0
Chemical Synonyms	Sodium Acid Sulfate, Sodium Hydrogen Sulfate	
Formula	NaHSO <sub>4</sub>	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7681-38-1	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Bisulfate	100%	See Section V.
DANGER! CORROSIVE! CAUSES SEVERE BURNS TO SKIN, EYES AND		
MUCOUS MEMBRANES. MAY BE FATAL IF SWALLOWED.		
HARMFUL IF INHALED. CAUSES SKIN IRRITATION. MOISTURE SENSITIVE.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	315°C (598°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.435 @ 13°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (n-Butyl Acetate = 1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	54 grams per 100 mL. at 20°C.		
Appearance & Odor	White crystalline powder, globular, crystals; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

### SPECIAL FIREFIGHTING PROCEDURES

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

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Sulfuric acid is highly corrosive and causes severe burns on contact. Sulfuric acid is liberated on contact with moisture. Dangerous; when heated to decomposition, it emits highly toxic fumes of oxides of sulfur; will react with water or steam to produce heat and toxic fumes.

D.O.T. Corrosive solids, n.o.s. , (Sodium hydrogen sulfate), 8, UN 1759, PG III

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