



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 898  
Effective Date January 21, 1999

## SECTION V HEALTH HAZARD DATA

SS 898

### Threshold Limited Value

None established for this mixture.

### Effects of Overexposure

**INHALATION:** Of product dust or mist, may irritate respiratory tract.  
**INGESTION:** May cause irritation of the gastrointestinal tract and purging.  
**SKIN:** Dust or mist may cause irritation from prolonged contact. Aqueous solutions may cause irritation from repeated or prolonged contact. **EYES:** Dust or mist may irritate or burn eyes. Solutions may irritate or burn eyes.

### Emergency and First Aid Procedures

**EYES:** Flush with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, get medical attention. **SKIN:** Flush thoroughly with water, then wash with soap and water.  
**INHALATION AS MIST:** Remove to fresh air. If illness or discomfort develops, get medical attention. **INGESTION:** If swallowed, if conscious, promptly give two to four glasses of water and induce vomiting. Call physician. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	High temperatures (above 100°C): Yields sulfur dioxide gas and hazardous residue.
	Stable	X		

**Incompatibility (Materials to Avoid)**  
**Strong oxidizers:** Causes vigorous exothermic reaction.  
**Acids:** Release sulfur dioxide gas. Water-reactive materials such as sodium: cause strong exothermic reaction with the hydrate.

**Hazardous Decomposition Products**  
**Sulfur dioxide gas:** Toxic, corrosive and an oxidizer.  
**Sodium sulfide residue:** Flammable, dangerous, fire risk, strong irritant to skin and tissue, incompatible with acids.

<b>Hazardous Polymerization</b>		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled**  
Absorb with an inert dry material, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**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 should be needed in normal laboratory use. If misty conditions prevail, work in fume 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 glasses.

**Other Protective Equipment**  
Goggles, smock, apron, proper gloves, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing**  
Store in a cool, dry place away from acids or oxidizers. Contact with acids releases irritating sulfur dioxide gas.  
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 eyes, skin, and clothing. Avoid breathing mist. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 1	Date	1/21/99	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

<b>Product</b>	SODIUM THIOSULFATE 0.5 M 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 0 Fire 0 Reactivity 0
<b>Chemical Synonyms</b>	Sodium Thiosulfate Aqueous Solution	
<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
Sodium Thiosulfate: (CAS No. 7772-98-7)	7.9%	None established.
Water: (CAS No. 7732-18-5)	92.1%	None established.

**CAUTION! MAY BE HARMFUL IF SWALLOWED.**

**MAY CAUSE IRRITATION TO SKIN AND EYES.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.1
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	92.1%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Ether = 1)	Greater 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

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	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-approved self-contained breathing apparatus. Use water spray to keep containers cool, and to knock down fumes.

Molarity = Normality)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. **NON-REGULATED.**

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