



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. SS 880  
Effective Date May 6, 1999

## SECTION V HEALTH HAZARD DATA

SS 880

### Threshold Limited Value

No OSHA/TWA or ACGIH/TLV established for sodium thiosulfate.  
ACGIH/TLV for SO<sub>2</sub> is 5 mg/cu. m., with STEL 10 mg/cu. m.

### 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 thoroughly 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:** 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)		<u>Strong oxidizers:</u> Causes vigorous exothermic reaction. <u>Acids:</u> Release sulfur dioxide gas. Water-reactive materials such as sodium: cause strong exothermic reaction with the hydrate.			
Hazardous Decomposition Products		<u>Sulfur dioxide gas:</u> Toxic, corrosive and an oxidizer. <u>Sodium sulfide residue:</u> Flammable, dangerous, fire risk, strong irritant to skin and tissue, incompatible with acids.			
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	Avoid creating dust. 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 an approved incinerator equipped with an afterburner and scrubber.		
	Dissolve in water and flush to sewer with copious amounts of water.		

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		None should be needed in normal laboratory use. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator for dust.			
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, ventilation hood.				

## 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. Wash thoroughly after handling.
---	---

**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 dust or 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. 4	Date 5/6/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
----------------	-------------	--------------------------	-----------------------------	----

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 THIOSULFATE, PENTAHYDRATE
Chemical Synonyms	Sodium Thiosulfate, Pentahydrate
Formula	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> •5H <sub>2</sub> O
Unit Size	up to 12 Kg.
C.A.S. No.	10102-17-7

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

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

Health	0
Fire	0
Reactivity	1

HMIS \*  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Thiosulfate, Pentahydrate	100%	None established.
CAUTION! MAY BE HARMFUL IF SWALLOWED.		
MAY CAUSE IRRITATION TO SKIN, EYES		
AND MUCOUS MEMBRANES.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Rapidly heated at 48°C (118°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.685 at 20°C
Boiling Point (°F)	Loses water @ 100°C (212°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ( )	Non-volatile (NA).
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	42 grams per 100 mL. water at 0°C.		
Appearance & Odor	Clear to white crystals; 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
				-----	-----
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.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

High temperatures may cause evolution of toxic Sulfur Dioxide (SO<sub>2</sub>) or Hydrogen Sulfide gas (H<sub>2</sub>S).

D.O.T. NON-REGULATED.

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