



ALDON CORPORATION

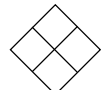
MATERIAL SAFETY DATA SHEET

221 Rochester Street
Avon, New York 14414-9409
(585) 226-6177

MSDS No.: SS0880
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Sodium Thiosulfate, Pentahydrate
Chemical Synonyms	Sodium Thiosulfate, 5-Hydrate
Formula	Na ₂ S ₂ O ₃ •5H ₂ O
Unit Size	up to 12 Kg.
C.A.S. No.	10102-17-7



CHEMTREC
800-424-9300
Day 585-226-6177

NFPA

HAZARD RATING
MINIMAL SLIGHT MODERATE SERIOUS SEVERE
0 1 2 3 4

Health	0
Fire	0
Reactivity	1

HMIS*

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 ₂ O = 1)	1.685 at 20°C
Boiling Point (°F)	Loses water @ 100°C (212°F)	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Non-volatile.
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.	Flammable Limits in Air % by Volume N/A	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 (SO₂) or Hydrogen Sulfide gas (H₂S).

SECTION V HEALTH HAZARD DATA

SS0880

Threshold Limited Value No OSHA/TWA or ACGIH/TLV established for sodium thiosulfate. ACGIH/TLV for SO₂ 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. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get 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	X	Conditions to Avoid	High temperatures (above 100°C): Yields sulfur dioxide gas and hazardous residue.
	Stable			

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.

Hazardous Polymerization	May Occur	Will Not Occur	Conditions to Avoid	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. 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. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with eyes, skin, and clothing. Avoid breathing dust or mist. Use with adequate ventilation. Remove and wash contaminated clothing.

D.O.T. NON-REGULATED.

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

Revision No. 6 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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.