

MATERIAL SAFETY DATA SHEET

July 1, 1986

SECTION I NAME

SODIUM TRIOSULFATE, ANHYDROUS

Product SODIUM TRIOSULFATE, ANHYDROUS
Chemical Synonyms Hypo.; Sodium Hyposulfite
Formula Na₂S₂O₃
Unit(s) Size 100, 500 grams, 2.5 Kg.
C.A.S. No. 7772-98-7

CHEMTREC 800-424-9300		Health 1
Dry 716-226-6177 Night 716-334-4222		File 0
NFPA HAZARD RATING		Reactivity 1
LEAST	MODERATE	EXTREME
0	1 2	3 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Sodium Trisulfate, Anhydrous	100%	None established

WARNING! HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	48°C (rapid heating)	Specific Gravity (H₂O = 1)	1.667 at 20°C
Boiling Point (°F)	Decomposes above 100°C	Percent Volatile by Volume (%)	Non-volatile (NA)
Vapor Pressure (mm Hg)	Negligible as solid	Evaporation Rate	Non-volatile (NA)
Vapor Density (Air = 1)	5.47		
Solubility in Water	42 grams per 100 ml water at 25°C.		
Appearance and Odor	White crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA)	Flammable Limits in Air % by Volume	Lower: Upper:
Extinguisher	Use any media suitable for extinguishing supporting fire.		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-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).

D.O.T. NON-REGULATED



FREY SCIENTIFIC

905 HICKORY LANE MANSFIELD, OHIO 44905

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

NOV 1986 RECEIVED
 NOV SUPPLY CENTER
 MSDS NO. 112122232425262728293031-12345678970
 Effective Date 02/01/81 L.S.G.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value none established. (ACGIH 1983-84).

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 eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention. **SKIN:** Flush skin, or wash with soap and water. **INHALATION:** Remove to fresh air. If short of breath, give oxygen, provided a qualified operator is available. If symptoms persist, get medical attention. **INGESTION:** Promptly give two to four glasses of water and induce vomiting by touching finger to back of throat. Call physician.

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SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	High temperatures (above 100° C):
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	Conditions to Avoid	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container.

Waste Disposal Method

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 None should be needed in normal laboratory use. If dusty conditions prevail, work in fume hood or wear an NIOSH-approved respirator for dust.

Ventilation

Local Exhaust	Recommended	Special	no
Mechanical (General)	Recommended	Other	no

Protective Gloves

Rubber

Eye Protection

Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing Store in a cool, dry place away from acids or oxidizers. Avoid contact with eyes, skin, clothing. Avoid breathing dust or mist. Use with adequate ventilation. Keep container tightly closed when not in use.

Other Precautions

Read label on container before using. Contact with acids releases irritating sulfur dioxide gas.

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

Rev. No. No 1	Date 1/28/87	Approved	Michael D. Secora	Chemical Safety Coordinator
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