



MATERIAL SAFETY DATA SHEET

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SODIUM THIOSULFATE
(DE CHLOR)

1. PRODUCT AND COMPANY INFORMATION

Synonyms: Sodium thiosulfate, pentahydrate, thiosulfuric acid, disodium salt

CAS#: 7772-98-7 (Anhydrous) 10102-17-7 (Pentahydrate)

Molecular Weight: 248.17

Chemical Formula: Na₂S₂O₃.5H₂O

Distributor:
Global Chemical Resources
1802 Nebraska Ave.
Toledo, Ohio 43607
Phone: 419-242-1004
Fax: 419-241-0668
CHEMTRAC: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent	Hazardous
Sodium Thiosulfate	7772-98-7	100%	Yes

3. HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! May be harmful if swallowed or inhaled. May cause irritation to skin, eyes, and respiratory tract.

Health Rating:	1-Slight
Flammability Rating:	0-None
Reactivity Rating:	1-Slight
Contact Rating:	1-Slight
Lab Protective Equip:	Goggles, Lab Coat, and Proper Gloves
Storage Color Code:	Green (General Storage)

Potential Health Effects:

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion: Low level of toxicity by ingestion. Diarrhea may occur by ingestion of large quantities.

Skin Contact: Irritation may occur from prolonged skin contact.

Eye Contact: Irritation may cause mechanical irritation.

Chronic Exposure: Chronic exposure may cause skin effects.

Aggravation of Pre-existing Conditions: No information found.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

5. FIRE FIGHTING MEASURES

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, and ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they contain product residues (dust, solids). Observe all warnings and precautions listed for this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits: None established

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Monoclinic, colorless crystals
Odor:	Odorless
Solubility:	79g/100ml water @4C(39F)
Density:	1.75
pH:	No information found
% Volatiles by volume @ 21C(70F):	0
Boiling Point:	>100C(>212F)
Melting Pont:	48C (118F) Loses water @ 100C(212F)
Vapor Density (Air=1):	No information found
Vapor Pressure (mm Hg):	No information found
Evaporation Rate (BuAc=1):	No information found

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage. Stability limited in solution.

Hazardous Decomposition Products: Oxides of sulfur and hydrogen sulfide.

Hazardous Polymerization: Will not occur

Incompatibilities: Sodium nitrate, halogens, and oxidizing agents. Reacts with acids to release sulfur dioxide.

Conditions to Avoid: Incompatibles

11. TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure.

Cancer Lists:

Ingredient	NTP Carcinogen		IARC Category
	Known	Anticipated	
Sodium Thiosulfate (7772-98-7)	No	No	None

12. ECOLOGICAL INFORMATION

Environmental Fate: No information found

Environmental Toxicity: No information found

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATORY INFORMATION

Chemical Inventory List-Part 1:

Ingredient	TSCA	EC	Japan	Australia
Sodium Thiosulfate (7772-98-7)	Yes	Yes	Yes	Yes

Chemical Inventory List-Part 2:

Ingredient	Korea	Canada DSL	NDSL	Phil
Sodium Thiosulfate (7772-98-7)	Yes	Yes	No	Yes

Federal, State, & International Regulations-Part 1:

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List	Chemical Catg.
Sodium Thiosulfate (7772-98-7)	No	No	No	No

Federal, State & International Regulations-Part 2:

Ingredient	CERCL	RCRA	TSCA
Sodium Thiosulfate (7772-98-7)	No	261.33 No	8 (d) No

Chemical Weapons Convention:	No
TSCA 12 (b) :	No
CDTA:	No
SARA 311/312 Acute:	Yes
Chronic:	No
Fire:	No
Pressure:	No
Reactivity:	No (Pure, Solid)

Australian Hazchem Code: None allocated

Poison Schedule: None allocated

WHNIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

NFPA Ratings:

Health: 1
Flammability: 0
Reactivity: 0

Label Hazard Warning:

CAUTION! May Be Harmful If Swallowed Or Inhaled. May Cause Irritation To Skin, Eyes, And Respiratory Tract.

Label Precautions: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use with adequate ventilation.

Label First Aid: If inhaled, remove to fresh air. Get medical attention for breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Product Use: Laboratory Reagent

Disclaimer:

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