



Section 1 - Product and Company Identification

Product Name: Sodium Thiosulfate Solution
Chemical Formula: Na₂S₂O₃
CAS Number: 00772-98-7
General Use: Waste water dechlorination agent and lab reagent
Supplier: Skyhawk Chemicals, Inc.
701 N Post Oak Rd., Ste. 540
Houston, TX 77024
Telephone: 713-957-2200/800-535-2847
Fax: 713-957-0345
Email: order@skyhawkchemicals.com
Emergency Contact: CHEMTREC/800-424-9300/ACCT #: CCN721839

Section 2 - Hazards Identification

Emergency Overview

Target Organs: None

GHS Classification: Not a dangerous substance or mixture

GHS Label Elements: None

Hazard Statements: None

Precautionary Statements: None

HMIS Classification: Health Hazard 1
Flammability 0
Reactivity 0

Potential Health Effects: Inhalation: Irritant
Eye: Irritant
Skin: Irritant
Ingestion: Harmful if swallowed

Medical Condition aggravated by long term exposure - Capable of provoking bronchospasm in sulfite sensitive individuals with asthma.

Section 3 – Composition / Information on Ingredients

Composition	CAS Number	% Wt
Sodium Thiosulfate	10102-17-7	30 - 60
Water	7732-18-5	40 -70
Sodium Sulfite	7757-83-7	1.5
Sodium Sulfate	7757-82-6	2.0

Section 4 - First Aid Measures

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<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
Inhalation:	Sore throat, shortness of breath coughing, and congestion.	Remove from exposure to fresh air. Seek medical attention in severe cases or if recovery is not rapid.
Eye Contact:	Irritation to eyes and mucous membranes.	Irrigate with water until no evidence of chemical remains. Obtain medical attention.
Skin Contact:	Irritation, itching, dermatitis	Wash with soap and drench with water. Remove contaminated clothing and wash before reuse.
Ingestion:	Irritation to mucous membranes.	Give large quantities of water or milk immediately. Obtain medical attention.

After first aid, get appropriate medical attention.

Note to Physician: Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

Section 5 - Fire-Fighting Measures

Flash Point:	Not combustible.
Flash Point Method:	Not Applicable.
Burning Rate:	Not Applicable.
Auto ignition Temperature:	Not Applicable.
LEL:	Not Applicable.
UEL:	Not Applicable.
Flammability Classification:	Not Flammable.
Extinguishing Media:	Use extinguishing agent appropriate for surrounding fire conditions.
Unusual Fire or Explosion Hazards:	None indicated.
Hazardous Combustion Products:	May release hazardous gas.
Fire-Fighting Instructions:	Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment:	Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill / Leak Procedures:	Wear appropriate PPE - See Section 8.
Small Spills / Leaks:	Leaks may be located by spraying the area with ammonium hydroxide solution which forms a white fume in the presence of sulfur dioxide.
Large Spills / Leaks:	Large spills should be handled according to a predetermined plan.
Containment:	For large spills, dike far ahead of contaminated runoff for later disposal.

Section 7 - Handling and Storage

Handling Precautions:	Avoid contact with product. Do not breathe vapor.
Storage Requirements:	Avoid heat or moisture. Store in areas, away from heat and moisture and protected from physical damage. Segregate from acids and oxidizers.

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Section 8 - Exposure Controls / Personal Protection

Composition	CAS Number	TWA	STEL	IDLH
Sodium Sulfite	007757-83-7	*	*	*
Sodium Sulfate	007757-82-6	*	*	*

* None established. Control as nuisance dust.

- Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA limits (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at the source.
- Respiratory Protection:** Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear a SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*
- Protective Clothing / Equipment:** Wear protective gloves, boots, and clothing when necessary to prevent excessive skin contact. Wear protective eyeglasses or goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).
- Safety Stations:** Make emergency eyewash stations, showers, and washing facilities available in the work area.
- Contaminated Equipment:** Remove this material from personal protective equipment as needed.
- Comments:** Do not eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before food or beverage consumption.

Section 9 - Physical and Chemical Properties

Physical State:	Liquid	Water Solubility:	Completely miscible
Other Solubility:	NA	Odor Threshold:	None
Boiling Point:	Similar to water	Vapor Pressure:	Similar to water
Freezing Point:	Similar to water	Vapor Density:	Similar to water
Melting Point:	Similar to water	Evaporation Rate:	Normal
Density:	NA	pH:	6.5 – 8.0
Volatility:	30 – 70 %		

Section 10 - Stability & Reactivity

- Stability:** Stable under normal conditions.
- Polymerization:** Hazardous polymerization will not occur.
- Chemical Incompatibilities:** Sodium sulfite may, in acidic solutions, release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide. Acute poisoning from sulfur dioxide is rare because the gas is easily detected. It is so irritating that

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contact cannot be tolerated. Symptoms include coughing, hoarseness, sneezing, tearing, and breathing difficulty. However, workers who cannot escape high accidental exposure may suffer severe pulmonary damage which can be fatal. Contact with powdered potassium, sodium metals, alkali, and oxidizing agents produce violent reactions. Reacts with water and steam to form corrosive sulfurous acid. Reacts with chlorates to form unstable chlorine dioxide.

Conditions to Avoid: Avoid excessive heat, or open flame.

Hazardous Decomposition

Products: May release hazardous sulfur dioxide gas.

Section 11 - Toxicological Information

Eye Effects (rabbit): Not available. **Acute Inhalation Effects (rabbit):** Not Available **Skin Effects (rabbit):** Not available **Acute Oral Effects (rabbit):LD50 =** Not Available
Carcinogenicity: IARC, NTP, and OSHA do not list Sodium Sulfite as a carcinogen.
Chronic Effects: Prolonged or repeated exposure may cause dermatitis, and sensitization reactions. Exposure to asthmatic, atopic and sulfite sensitive individuals may result in severe bronchoconstriction and reduced levels in forced expiratory volume. Acidic decomposition of sodium sulfite may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide, which may cause permanent pulmonary impairments from acute and chronic exposure.

Section 12 - Ecological Information

Ecotoxicity: Sodium Sulfite is non hazardous in solution and is commonly used as a waste water dechlorination agent. High concentrations will contribute to elevated chemical oxygen demand in aquatic environments.

Environmental Transport: Soluble in water.

Environmental Degradation: Rapid biological decomposition.

Soil Absorption/Mobility: Slight.

Section 13 - Disposal Considerations

Disposal: Waste determinations typically consider Sodium Sulfite contaminated materials to be non-hazardous.

Disposal Regulatory

Requirements: Follow applicable Federal, state and local regulations.

Container Cleaning and

Disposal: Follow applicable Federal, state and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Non-Regulated Material

Shipping Symbols: NA

Hazard Class: NA

Subsidiary Hazard: NA

ID No.: NA

Packing Group: NA

Label: NA

Special Provisions: None indicated

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Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Classification (40 CFR 261): Not listed.
RCRA Hazardous Waste Number (40 CFR 261): Not listed.
CERCLA Hazardous Substance (40 CFR 302.4): Not listed.
CERCLA Reportable Quantity (RQ): NA
SARA Title III: Not listed. FIFRA: All
Not regulated. TSCA: All

ingredients listed OSHA Regulations:

Air Contaminant (29 CFR 1910.1000): Not listed.
OSHA Specifically Regulated Substance: Not listed.

Other Regulations:

WHMIS Classification (Canada): Not listed

Section 16 - Other Information

Previous MSDS issue date: April, 2012
Current SDS issue date: May, 2015
Reason for current revision: To comply with GHS requirements.

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