

# Material Safety Data Sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	Sodium Thiosulfate, Anhydrous	<b>Product Code</b>	SX0820
<b>Manufacturer</b>	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	<b>Effective Date</b>	3/4/2003
		<b>Print Date</b>	5/3/2004

### For More Information Call

856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

### In Case of Emergency Call

800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

**Synonym** Hypo: Sodium Hyposulfate

**Material Uses** Analytical reagent.

**Chemical Family** Inorganic salt

## Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
SODIUM THIOSULFATE	7772-98-7	100

## Section 3. Hazards Identification

**Physical State and Appearance** Solid. (Powder or crystals)

**Emergency Overview** WARNING !.  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

**Routes of Entry** Absorbed through skin. Eye contact. Inhalation. Ingestion.

### Potential Acute Health Effects

**Eyes** May be hazardous in case of eye contact (irritant).

**Skin** May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** May be hazardous in case of inhalation.

**Ingestion** May be hazardous in case of ingestion.

### Potential Chronic Health Effects

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Additional information** See Toxicological Information (section 11)

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

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**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product</b>	Non-flammable.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	Not applicable.
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
<b>Fire Fighting Media and Instructions</b>	Not applicable.
<b>Protective Clothing (Fire)</b>	Not applicable.
<b>Special Remarks on Fire Hazards</b>	Thermal decomposition may release toxic and/or hazardous gases.
<b>Special Remarks on Explosion Hazards</b>	Not available.

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill and Leak</b>	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
<b>Spill Kit Information</b>	No specific spill kit required for this product. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). ALWAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

**Section 7. Handling and Storage**

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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**Personal Protection**

**Eyes** Splash goggles.

**Body** Lab coat.

**Respiratory** Dust respirator. Be sure to use an approved/certified respirator or equivalent.

**Hands** Gloves.

**Feet** Not applicable.

**Protective Clothing (Pictograms)****Personal Protection in Case of a Large Spill**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Product Name**

SODIUM THIOSULFATE

**Exposure Limits**

Not available.

**Section 9. Physical and Chemical Properties**

<b>Odor</b>	Odorless.
<b>Color</b>	Colorless to white
<b>Physical State and Appearance</b>	Solid. (Powder or crystals)
<b>Molecular Weight</b>	158.11 g/mole
<b>Molecular Formula</b>	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
<b>pH</b>	Not available.
<b>Boiling/Condensation Point</b>	Decomposes.
<b>Melting/Freezing Point</b>	Not available.
<b>Specific Gravity</b>	1.667 (Water = 1)
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	Not available.
<b>Odor Threshold</b>	Not available.
<b>Evaporation Rate</b>	Not available.

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**LogK<sub>ow</sub>** Not available.

**Solubility** Soluble in water.

### Section 10. Stability and Reactivity

**Stability and Reactivity** The product is stable.

**Conditions of Instability** Hygroscopic; keep container tightly closed.

**Incompatibility with Various Substances** Highly reactive with oxidizing agents, acids.

Reactive with metals.

**Rem/Incompatibility** Incompatible with Iodine, Mercury, Lead, Silver Salt. Incompatible with heavy metals.

**Hazardous Decomposition Products** Na<sub>2</sub>O, SO<sub>x</sub>

**Hazardous Polymerization** Will not occur.

### Section 11. Toxicological Information

**RTECS Number:** Sodium Thiosulfate, Anhydrous XN6476000

**Toxicity** LD<sub>50</sub>: Not available.

LC<sub>50</sub>: Not available.

**Chronic Effects on Humans** Contains material which may cause damage to the following organs: mucous membranes.

**Acute Effects on Humans** May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation. May be hazardous in case of ingestion.

**Synergetic Products (Toxicologically)** Not available.

**Irritancy** Draize Test: Not available.

**Sensitization** Not available.

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Toxicity to Reproductive System** Not available.

**Teratogenic Effects** Not available.

**Mutagenic Effects** Not available.

### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Toxicity of the Products of Biodegradation** The products of degradation are less toxic than the product itself.

**Section 13. Disposal Considerations**

<b>EPA Waste Number</b>	Not available.
<b>Treatment</b>	Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

**Section 14. Transport Information**

<b>DOT Classification</b>	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
<b>TDG Classification</b>	Not available.
<b>IMO/IMDG Classification</b>	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
<b>ICAO/IATA Classification</b>	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.

**Section 15. Regulatory Information**

<b>U.S. Federal Regulations</b>	TSCA 8(b) inventory: SODIUM THIOSULFATE SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: SODIUM THIOSULFATE SARA 311/312 MSDS distribution - chemical inventory - hazard identification: SODIUM THIOSULFATE: Immediate (Acute) Health Hazard SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
<b>WHMIS (Canada)</b>	Not controlled under WHMIS (Canada).  CEPA DSL: SODIUM THIOSULFATE  This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.
<b>International Regulations</b>	
<b>EINECS</b>	SODIUM THIOSULFATE 231-867-5
<b>DSCCL (EEC)</b>	R36/38- Irritating to eyes and skin.
<b>International Lists</b>	Australia (NICNAS): SODIUM THIOSULFATE  Germany water class: SODIUM THIOSULFATE  Japan (MITI): SODIUM THIOSULFATE  Korea (TCCL): SODIUM THIOSULFATE  Philippines (RA6969): SODIUM THIOSULFATE China: No products were found.
<b>State Regulations</b>	New Jersey: SODIUM THIOSULFATE  California prop. 65: No products were found.

**Section 16. Other Information**

National Fire  
Protection  
Association  
(U.S.A.)



Changed Since Last  
Revision

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**Notice to Reader**

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