

MATERIAL SAFETY DATA SHEET  
Sodium thiosulfate

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Sodium thiosulfate  
**Catalog Numbers:** 20287-0000, 20287-0010, 20287-0025, 20287-0050, 20287-5000  
**Synonyms:**  
**Company Identification:** Acros Organics BVBA  
 Janssen Pharmaceuticaaan 3a  
 2440 Geel, Belgium  
**Company Identification: (USA)** Acros Organics  
 One Reagent Lane  
 Fair Lawn, NJ 07410  
**For information in the US, call:** 800-ACROS-01  
**For information in Europe, call:** +32 14 57 52 11  
**Emergency Number, Europe:** +32 14 57 52 99  
**Emergency Number US:** 201-796-7100  
**CHEMTREC Phone Number, US:** 800-424-9300  
**CHEMTREC Phone Number, Europe:** 703-527-3887

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7772-98-7	Sodium thiosulfate	98.5%	231-867-5

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

## Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

*Not available*

## Potential Health Effects

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.  
**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.  
**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

#### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.  
**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

#### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.  
**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

#### Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.  
**Storage:** Store in a cool, dry place. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

CAS# 7772-98-7:

**Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder  
**Color:** white  
**Odor:** odorless  
**pH:** 6.0-8.5 (5% aq. sol. 20°C)  
**Vapor Pressure:** Not available  
**Viscosity:** Not available  
**Boiling Point:** 100 deg C ( 212.00°F)  
**Freezing/Melting Point:** 48 deg C ( 118.40°F)  
**Autoignition Temperature:** Not available  
**Flash Point:** Not available  
**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:** Not available  
**Solubility in water:** 500 g/l(20°C)  
**Specific Gravity/Density:** 1.660  
**Molecular Formula:** Na2O3S2  
**Molecular Weight:** 158.1

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** High temperatures, incompatible materials, light, exposure to moist air or water.  
**Incompatibilities with Other Materials** Strong oxidizing agents, strong oxidizing agents, acids, chlorates, permanganates, silver salts, mercury, metal nitrates, sodium nitrite, iodine.  
**Hazardous Decomposition Products** Carbon monoxide, oxides of sulfur, carbon dioxide, sodium oxide.  
**Hazardous Polymerization** Will not occur.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 7772-98-7: XN6476000  
**LD50/LC50:** RTECS: Not available. Other: Oral, rat : LD50 = >5000mg/kg  
**Carcinogenicity:** Sodium thiosulfate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

### Section 12 - Ecological Information

**Ecotoxicity:** Fish: Mosquito Fish: 24000mg/l; 96h; .  
**Other:** Do not empty into drains.  
log Pow : -4.35

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

#### European/International Regulations

European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available  
Risk Phrases:  
Safety Phrases:  
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7772-98-7: 0

Canada

CAS# 7772-98-7 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 7772-98-7 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:** 7/16/1996

**Revision #1 Date** 2/20/2008

**Revisions were made in Sections:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 11,

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