

# SAFETY DATA SHEET

## SODIUM THIOSULFATE, 5% Aqueous

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Sodium Thiosulfate, 5% Aqueous

**Catalog Numbers:** SO-448, L-773-4, K-698-5, K-697-7, K-693-7, K-691-7, K-659-4, G-484-3, G-481-2, G-454-2, F-395-8, F-394-6, F-392-10, F-390-13, F-380-9, F-374-5, F-364-10, F-360-4, D-251-7, C-211-3, C-201-8, A-141-5, A-132-4, A-131-5, A-130-6

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

## GHS Classifications

H303-Acute Oral Toxicity: 5

H312-Acute Dermal Toxicity: 4

H315-Skin Corrosion/Skin Irritation: 2

H320-Serious Eye damage/Irritation: 2B

H317-Skin Sensitization: 1

**Pictograms or Hazard symbols and Hazard statement.**



Signal word: Warning

### Hazard Statements:

H303-May be harmful if swallowed

H312-Harmful in contact with skin

H315-Causes skin irritation

H320-Causes eye irritation

H317-May cause an allergic skin reaction

### Precautionary Statements:

**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.

**P264** Wash thoroughly after handling.

**P272** Contaminated work clothing should not be allowed out of the workplace.

**P280** Wear protective gloves/protective clothing.  
**P302+P352** If on skin, wash with plenty of soap and water.  
**P305+P351+P338** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P312** Call a Poison Center/doctor/physician if you feel unwell.  
**P332+P313** If skin irritation occurs: Get medical advice/attention.  
**P333+P313** If skin irritation or rash occurs: Get medical advice/attention.  
**P337+P313** If eye irritation persists: Get medical advice/attention.  
**P362** Take off contaminated clothing and wash before reuse.  
**P363** Wash contaminated clothing before reuse.  
**P501** Dispose of contents/container in accordance with all federal, state, and local regulations.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
10102-17-7	Sodium Thiosulfate Pentahydrate	5.0 w/v
7732-18-5	Water	Balance

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

**Special Remarks on Fire Hazards:** When heated to decomposition it emits toxic fumes of sulfur oxides, hydrogen sulfide, and sodium oxide.

**Special Remarks on Explosion Hazards:** An explosion may occur with raw material if triturated with nitrates, chlorates, or permanganates.

### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage
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Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection
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**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties
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**Physical State:** Liquid

**Appearance:** Clear

**Odor:** Odorless

**pH:** 6.0-9.0

**Vapor Pressure:** 2.3 kPa @ 20deg. C

**Vapor Density:** 0.62 (Air=1)

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** 100 deg. C

**Solubility:** N/A

Section 10 - Stability and Reactivity
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**Chemical Stability:** The product is stable.

**Conditions to Avoid:** Heat, incompatible materials.

**Incompatibilities with Other Materials:** Reactive with oxidizing agents, acids, alkalis. Incompatible with iodine, acids, lead, mercury, silver salts, and halogens.

**Hazardous Decomposition Products:** Sulfur oxides, sodium oxides.

**Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

**RTECS#:** WE6660000

**LD50/LC50:**

CAS# 10102-17-7: LD50 Rat, intravenous >2,500 mg/kg

**Carcinogenicity:**

CAS# 10102-17-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

**CAS#** 10102-17-7.

**Ecotoxicity:** Not available.

**Environmental:** Not available.

**Physical:** No information available.

**Other:** No information available.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

**DOT**

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Risk Phrases:**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

R43 May cause sensitization by skin contact

**Safety Phrases:**

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children.

S7 Keep container tightly closed.

S9 Keep container in a well-ventilated place

S24 Avoid contact with skin.

Section 16 - Additional Information

**SDS Creation Date:** 10/15/12

**Revision #1. CF 9/9/13 Revision #2. 12/12/17**

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