

Safety Data Sheet

Sodium Thiosulfate, 0.01 to 0.1M



Section 1

Product Description

Product Name: Sodium Thiosulfate, 0.01 to 0.1M
Recommended Use: Science education applications
Synonyms: none
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: May cause eye irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Section 3

Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|-------------------------------|--------------|----------|
| Water | 7732-18-5 | 0 |
| Sodium Thiosulfate, Anhydrous | 7772-98-7 | 0 |
| Sodium Hydroxide | 1310-73-2 | 0 |

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Sodium Oxides, Sulfur Oxides

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Ventilate the contaminated area.
Environmental Precautions: Avoid breathing material. Avoid contact with skin and eyes.

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Reduce airborne dust and prevent scattering by moistening with water. Ventilate the area by opening door and/or turning on fans and blowers. Avoid runoff into storm sewers and ditches that lead to waterways. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Contain the discharged material.

Section 7 Handling and Storage

Handling: Keep container tightly closed in a cool, well-ventilated place.
Storage: Suitable for any general chemical storage.
Storage Code: Keep container tightly closed in a cool, well-ventilated place.
Green - general chemical storage

Section 8 Protection Information

| Chemical Name | ACGIH | | OSHA PEL | |
|------------------|-------|--------|-------------------------|--------|
| | (TWA) | (STEL) | (TWA) | (STEL) |
| Sodium Hydroxide | N/A | N/A | 2 mg/m ³ TWA | N/A |

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Natural latex,, Nitrile, Nitrile - Extra Thick (8 mm), Neoprene

Section 9 Physical Data

| | |
|--|---|
| Formula: see section 3 | Vapor Pressure: N/A |
| Molecular Weight: N/A | Evaporation Rate (BuAc=1): N/A |
| Appearance: Colorless | Vapor Density (Air=1): N/A |
| Odor: None | Specific Gravity: approx. 1.10 |
| Odor Threshold: No data available | Solubility in Water: Soluble |
| pH: No data available | Log Pow (calculated): No data available |
| Melting Point: 0 C | Autoignition Temperature: No data available |
| Boiling Point: 100 C | Decomposition Temperature: No data available |
| Flash Point: No data available | Viscosity: No data available |
| Flammable Limits in Air: N/A | Percent Volatile by Volume: N/A |

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to moisture

Incompatible Materials: Water-reactive materials, Strong reducing agents, Acids, Hydroquinone, Organic halides, Phosphorus, Alcohols, Metals, Aldehydes, Sodium Nitrate,, Metal Nitrates,, Silver, Free Iodine

Hazardous Decomposition Products: Sulfur Oxides, Sodium Oxides

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation, Ingestion, and Skin contact.

Symptoms (Acute): N/A

Delayed Effects: No data available

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Acute Toxicity:

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------------------|------------|-------------------------------|-------------|-----------------|
| Water | 7732-18-5 | Oral LD50 Rat 90000 mg/kg | | |
| Sodium Thiosulfate, Anhydrous | 7772-98-7 | Oral LD50 Rat > 5000 mg/kg | | |

Carcinogenicity:

| Chemical Name | CAS Number | IARC | NTP | OSHA |
|------------------|------------|------------|------------|------------|
| Sodium Hydroxide | 1310-73-2 | Not listed | Not listed | Not listed |

Chronic Effects:

| | |
|------------------------------|---|
| Mutagenicity: | No evidence of a mutagenic effect. |
| Teratogenicity: | No evidence of a teratogenic effect (birth defect). |
| Sensitization: | No evidence of a sensitization effect. |
| Reproductive: | No evidence of negative reproductive effects. |
| Target Organ Effects: | |
| Acute: | See Section 2 |
| Chronic: | Not listed as a carcinogen by IARC, NTP or OSHA. |

Section 12

Ecological Data

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|-------------------------------|---|
| Overview: | This material is not expected to be harmful to the ecology. |
| Mobility: | No data |
| Persistence: | Dissolved into water |
| Bioaccumulation: | No data |
| Degradability: | No data |
| Other Adverse Effects: | No data |

| Chemical Name | CAS Number | Eco Toxicity |
|-------------------------------|------------|---|
| Water | 7732-18-5 | No data available |
| Sodium Thiosulfate, Anhydrous | 7772-98-7 | 96 HR LC50 GAMBUSIA AFFINIS 24000 MG/L [STATIC] |
| Sodium Hydroxide | 1310-73-2 | Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L |

Section 13

Disposal Information

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|--------------------------------|---|
| Disposal Methods: | Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. |
| Waste Disposal Code(s): | Not Determined |

Section 14

Transport Information

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| Ground - DOT Proper Shipping Name: Not Regulated for ground transport by DOT. | Air - IATA Proper Shipping Name: Not regulated for air transport by IATA. |
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Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|------------------|------------|------------|------------|-------------------------|-----------|---------------|
| Sodium Hydroxide | 1310-73-2 | No | 1000 lb RQ | 1000lb (454kg) final RQ | No | No |

California Prop 65: No California Proposition 65 ingredients

Section 16

Additional Information

Safety Data Sheet

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

| | | | |
|--------|---|------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service Number | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL | Permissible Exposure Limit |
| DOT | U.S. Department of Transportation | ppm | Parts per million |
| IARC | International Agency for Research on Cancer | RCRA | Resource Conservation and Recovery Act |
| N/A | Not Available | SARA | Superfund Amendments and Reauthorization Act |
| | | TLV | Threshold Limit Value |
| | | TSCA | Toxic Substances Control Act |
| | | IDLH | Immediately dangerous to life and health |