

# Safety Data Sheet

## Sodium Thiosulfate, 5-Hydrate



### Section 1 Product Description

**Product Name:** Sodium Thiosulfate, 5-Hydrate  
**Recommended Use:** Science education applications  
**Synonyms:** Sodium Hyposulfite, 5-Hydrate  
**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:** Not a dangerous substance according to GHS classification criteria.  
No known OSHA hazards.

### Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u>          | <u>CAS #</u> | <u>%</u> |
|-------------------------------|--------------|----------|
| Sodium Thiosulfate, 5-Hydrate | 10102-17-7   | 100      |

### 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.  
**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:** None Known  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Section 7 Handling and Storage

**Handling:** Avoid creating and inhaling dust.  
**Storage:** Keep container tightly closed in a cool, well-ventilated place.  
**Storage Code:** Green - general chemical storage

# Safety Data Sheet

## Section 8

## Protection Information

| <u>Chemical Name</u>                        | <u>ACGIH</u>                                                                                                                                                                                                                                                                                                                                                       | <u>OSHA PEL</u>         |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| No data available                           | (TWA) N/A<br>(STEL) N/A                                                                                                                                                                                                                                                                                                                                            | (TWA) N/A<br>(STEL) N/A |
| <b>Control Parameters</b>                   |                                                                                                                                                                                                                                                                                                                                                                    |                         |
| <b>Engineering Measures:</b>                | 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.                                                                                                                                                                                             |                         |
| <b>Personal Protective Equipment (PPE):</b> | Lab coat, apron, eye wash, safety shower.                                                                                                                                                                                                                                                                                                                          |                         |
| <b>Respiratory Protection:</b>              | No respiratory protection required under normal conditions of use.                                                                                                                                                                                                                                                                                                 |                         |
| <b>Respirator Type(s):</b>                  | NIOSH approved air purifying respirator with dust/mist filter.                                                                                                                                                                                                                                                                                                     |                         |
| <b>Eye Protection:</b>                      | Wear chemical splash goggles when handling this product. Have an eye wash station available.                                                                                                                                                                                                                                                                       |                         |
| <b>Skin Protection:</b>                     | 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. |                         |
| <b>Gloves:</b>                              | Natural latex,, Nitrile, Neoprene                                                                                                                                                                                                                                                                                                                                  |                         |

## Section 9

## Physical Data

|                                                         |                                                     |
|---------------------------------------------------------|-----------------------------------------------------|
| <b>Formula:</b> Na2S2O3 5H2O                            | <b>Vapor Pressure:</b> N/A                          |
| <b>Molecular Weight:</b> 248.18                         | <b>Evaporation Rate (BuAc=1):</b> N/A               |
| <b>Appearance:</b> Colorless to White Crystalline Solid | <b>Vapor Density (Air=1):</b> N/A                   |
| <b>Odor:</b> None                                       | <b>Specific Gravity:</b> 1.69                       |
| <b>Odor Threshold:</b> No data available                | <b>Solubility in Water:</b> Slightly Soluble        |
| <b>pH:</b> No data available                            | <b>Log Pow (calculated):</b> No data available      |
| <b>Melting Point:</b> No data available 48 C            | <b>Autoignition Temperature:</b> No data available  |
| <b>Boiling Point:</b> No data available                 | <b>Decomposition Temperature:</b> No data available |
| <b>Flash Point:</b> No data available                   | <b>Viscosity:</b> No data available                 |
| <b>Flammable Limits in Air:</b> N/A                     | <b>Percent Volatile by Volume:</b> 0 @ 21 °C        |

## Section 10

## Reactivity Data

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| <b>Reactivity:</b>               | Not generally reactive under normal conditions. |
| <b>Chemical Stability:</b>       | Stable under normal conditions.                 |
| <b>Conditions to Avoid:</b>      | None known.                                     |
| <b>Incompatible Materials:</b>   | Acids, Metals, Oxidizing materials              |
| <b>Hazardous Polymerization:</b> | Will not occur                                  |

## Section 11

## Toxicity Data

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| <b>Routes of Entry</b>   | Inhalation, ingestion, eye or skin contact.                |
| <b>Symptoms (Acute):</b> | Eye Irritation, Respiratory Irritation, Dermatitis, Nausea |
| <b>Delayed Effects:</b>  | No data available                                          |

|                        |                   |                  |                    |                        |
|------------------------|-------------------|------------------|--------------------|------------------------|
| <b>Acute Toxicity:</b> |                   |                  |                    |                        |
| <b>Chemical Name</b>   | <b>CAS Number</b> | <b>Oral LD50</b> | <b>Dermal LD50</b> | <b>Inhalation LC50</b> |
| No data available      | 10102-17-7        | Not determined   | Not determined     | Not determined         |

|                         |                   |             |            |             |
|-------------------------|-------------------|-------------|------------|-------------|
| <b>Carcinogenicity:</b> |                   |             |            |             |
| <b>Chemical Name</b>    | <b>CAS Number</b> | <b>IARC</b> | <b>NTP</b> | <b>OSHA</b> |
| No data available       | 10102-17-7        | Not listed  | Not listed | Not listed  |

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| <b>Chronic Effects:</b> |                                                     |
| <b>Mutagenicity:</b>    | No evidence of a mutagenic effect.                  |
| <b>Teratogenicity:</b>  | No evidence of a teratogenic effect (birth defect). |
| <b>Sensitization:</b>   | No evidence of a sensitization effect.              |

# Safety Data Sheet

**Reproductive:** No evidence of negative reproductive effects.  
**Target Organ Effects:**  
**Acute:** No data available  
**Chronic:** No data available

## Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

|                      |                   |                     |
|----------------------|-------------------|---------------------|
| <b>Chemical Name</b> | <b>CAS Number</b> | <b>Eco Toxicity</b> |
| N/A                  | 10102-17-7        |                     |

## Section 13 Disposal Information

**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):** This material is not considered to be a RCRA hazardous waste.

## Section 14 Transport Information

|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| <b>Ground - DOT Proper Shipping Name:</b> | <b>Air - IATA Proper Shipping Name:</b>  |
| Not regulated for transport by DOT        | Not regulated for air transport by IATA. |

## Section 15 Regulatory Information

**TSCA Status:** A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

| Chemical Name     | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-------------------|------------|------------|----------|-----------|-----------|---------------|
| No data available | 10102-17-7 | No         | No       | No        | No        | No            |

**California Prop 65:** No California Proposition 65 ingredients

## Section 16 Additional Information

**Revised: 08/21/2018**

**Replaces: 06/15/2018**

**Printed: 08-25-2018**

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      |