



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Sodium Thiosulfate, 0.0100 Normal (N/100)

**Product Number** 7890

**Other Identifying Product Numbers** 7890-1, 7890-16, 7890-1CT, 7890-2.5, 7890-32, 7890-4, 7890-5, R7890000-1A, R7890000-4A

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

**Company** Ricca Chemical Company

**Address** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

| Hazard Class      | Category   | Hazard Statements | Precautionary Statements      |
|-------------------|------------|-------------------|-------------------------------|
| Flammable Liquids | Category 4 | H227              | P210,P280,P370+P378,P403,P501 |

### 2.2. GHS Label Elements

Pictograms:

Signal Word: **Warning**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

| Hazard Number | Hazard Statement   |
|---------------|--------------------|
| H227          | Combustible liquid |

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### Prevention

| Precautionary Number | Precautionary Statement                                                                        |
|----------------------|------------------------------------------------------------------------------------------------|
| P210                 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280                 | Wear protective gloves and eye protection.                                                     |

### Response

| Precautionary Number | Precautionary Statement                                                   |
|----------------------|---------------------------------------------------------------------------|
| P370+P378            | In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish. |

### Storage

| Precautionary Number | Precautionary Statement           |
|----------------------|-----------------------------------|
| P403                 | Store in a well-ventilated place. |

### Disposal

| Precautionary Number | Precautionary Statement                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P501                 | Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations. |

### 2.3. Hazards not Otherwise Classified

No other hazards identified.

### 2.4. Ingredients of Unknown Acute Toxicity

This product does not contain any ingredients of unknown acute toxicity.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

| Chemical Name (IUPAC)           | Common Name and Synonyms                                 | CAS Number  | Weight% |
|---------------------------------|----------------------------------------------------------|-------------|---------|
| water                           | Water                                                    | 7732-18-5   | 99.50   |
| sodium thiosulfate pentahydrate | Sodium Thiosulfate Pentahydrate                          | 10102-17-7  | 0.25    |
|                                 | Organic Preservative                                     | Proprietary | 0.24    |
| disodium carbonate              | Sodium Carbonate; Carbonic acid, disodium salt; Soda ash | 497-19-8    | < 0.1   |

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** May cause slight irritation.

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

**Ingestion:** Dilute with water or milk. Call a physician if necessary.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** May cause slight irritation.

## 4.2. Most Important Symptoms and Effects, Acute and Delayed

May be irritating to the eyes and skin. Wash areas of contact with water. Does not present any significant health hazards. If ingested, dilute with water and call a physician if necessary. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

## 4.3. Immediate Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish. Use any means suitable for extinguishing surrounding fire.

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Combustible liquid Not considered to be a fire or explosion hazard.

### 5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Collect liquid and dilute with water. Release to drain if local regulations allow. For larger spills, absorb with suitable material (vermiculite, clay, etc.). Collect the solid residue and save for disposal.

## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Store in a well-ventilated place. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1. Exposure Limits

**U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)**

No limits found.

**U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits**

No limits found.

**U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)**

No limits found.

**U.S. OSHA - Specifically Regulated Chemicals**

No limits found.

**ACGIH - Threshold Limit Values - Ceilings (TLV-C)**

No limits found.

**ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)**

No limits found.

**ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)**

No limits found.

#### 8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

#### 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

|                                                   |                     |
|---------------------------------------------------|---------------------|
| <b>Physical State:</b>                            | liquid              |
| <b>Color:</b>                                     | Colorless           |
| <b>Odor:</b>                                      | Data not available. |
| <b>Odor Threshold:</b>                            | Data not available. |
| <b>Melting/Freezing Point:</b>                    | 0.0°C               |
| <b>Boiling Point/Range:</b>                       | 100°C               |
| <b>Flammability:</b>                              | Data not available. |
| <b>Flammability/Explosive Limits:</b>             | Data not available. |
| <b>Flash Point:</b>                               | 81 °C (calculated)  |
| <b>Auto-Ignition Temperature:</b>                 | Data not available. |
| <b>Decomposition Temperature:</b>                 | Data not available. |
| <b>pH:</b>                                        | Data not available. |
| <b>Kinematic Viscosity:</b>                       | Data not available. |
| <b>Solubility:</b>                                | miscible            |
| <b>Vapor Pressure:</b>                            | Data not available. |
| <b>Evaporation Rate:</b>                          | Data not available. |
| <b>Relative Density:</b>                          | 1.00                |
| <b>Relative Vapor Density:</b>                    | Data not available. |
| <b>Particle Characteristics:</b>                  | Data not available. |
| <b>Partition Coefficient n-octanol/water, log</b> | Data not available. |

NOTE: Flash point was calculated according to the method of Gmehling and Rasmussen (Ind. Eng. Chem. Fundament, 21, 186, (1982) ), as allowed by GHS Rev 7, section 2.6.4.2.3.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage. All Thiosulfate solutions are subject to some bacterial contamination and slow chemical deterioration.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Metal Nitrates, Sodium Nitrite, Iodine, Acids, Lead, Mercury, and Silver salts.

### 10.4. Hazardous Decomposition Products

Will not occur.

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

##### Acute Toxicity - Oral Exposure:

Not acutely toxic.

| Chemical Name    | CAS Number | Toxicity                                    |
|------------------|------------|---------------------------------------------|
| Sodium Carbonate | 497-19-8   | Oral LD50 Rat 4090 mg/kg (Source: NLM_HSDB) |

##### Acute Toxicity - Dermal Exposure:

Not acutely toxic.

| Chemical Name    | CAS Number | Toxicity                                                          |
|------------------|------------|-------------------------------------------------------------------|
| Sodium Carbonate | 497-19-8   | Dermal LD50 Rabbit >2000 mg/kg (no deaths occurred, Source: ECHA) |

##### Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

| Chemical Name    | CAS Number | Toxicity                                                                   |
|------------------|------------|----------------------------------------------------------------------------|
| Sodium Carbonate | 497-19-8   | Inhalation LC50 Rat 2300 mg/m <sup>3</sup> 2 h (aerosol, Source: ECHA_API) |

#### 11.2 Carcinogenicity:

##### International Agency for Research on Cancer (IARC)

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
|               |            | No data found. |

##### National Toxicology Program (NTP)

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
|               |            | No data found. |

##### U.S. OSHA specifically regulated carcinogens

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
|               |            | No data found. |

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## 11.3 Additional Toxicology Information:

Data not available.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name    | CAS Number | Species         | Exposure | Toxicity                                                                                                                          |
|------------------|------------|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sodium Carbonate | 497-19-8   | Freshwater Fish | Acute    | LC50 96 h <i>Lepomis macrochirus</i> 300 mg/L [static] (EPA); LC50 96 h <i>Pimephales promelas</i> 310 - 1220 mg/L [static] (EPA) |
| Sodium Carbonate | 497-19-8   | Water Flea      | Acute    | EC50 48 h <i>Daphnia magna</i> 265 mg/L (IUCLID)                                                                                  |

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.



# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## SECTION 14: Transportation Information

### 14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT regulations.

### 14.2 Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

### 14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG regulations.

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 15: Regulatory Information

#### 15.01. Occupational Safety and Health Administration (OSHA) Hazards

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

#### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name  | CAS Number | RQ |
|----------------|------------|----|
| No data found. |            |    |

#### 15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

#### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name  | CAS Number | List |
|----------------|------------|------|
| No data found. |            |      |

#### 15.05. Massachusetts Right-to-Know Substance List

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

#### 15.06. Pennsylvania Right-to-Know Hazardous Substances

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

#### 15.07. New Jersey Worker and Community Right-to-Know Components

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## 15.08. California Proposition 65

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

## 15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

| Chemical Name                   | CAS Number | List | Status  |
|---------------------------------|------------|------|---------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | DSL  | Present |
| Sodium Carbonate                | 497-19-8   | DSL  | Present |
| Water                           | 7732-18-5  | DSL  | Present |

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

| Chemical Name                   | CAS Number | Status                                                                                                                 |
|---------------------------------|------------|------------------------------------------------------------------------------------------------------------------------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | "Present (ACTIVE)" As Thiosulfuric acid (H <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ), sodium salt (1:2) [7772-98-7] |
| Sodium Carbonate                | 497-19-8   | Present (ACTIVE)                                                                                                       |
| Water                           | 7732-18-5  | Present [XU] (ACTIVE)                                                                                                  |

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

| Chemical Name                   | CAS Number | List   | Number                                         |
|---------------------------------|------------|--------|------------------------------------------------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | EINECS | "231-867-5" As Sodium thiosulphate [7772-98-7] |
| Sodium Carbonate                | 497-19-8   | EINECS | 207-838-8                                      |
| Water                           | 7732-18-5  | EINECS | 231-791-2                                      |

## 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name                   | CAS Number | Status          |
|---------------------------------|------------|-----------------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | Present [22800] |
| Sodium Carbonate                | 497-19-8   | Present [34127] |
| Water                           | 7732-18-5  | Present [32224] |

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name                   | CAS Number | List    | Status                                                 |
|---------------------------------|------------|---------|--------------------------------------------------------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | Annex 1 | "Present [KE-31633]" As Sodium thiosulfate [7772-98-7] |
| Sodium Carbonate                | 497-19-8   | Annex 1 | Present [KE-31380]                                     |
| Water                           | 7732-18-5  | Annex 1 | Present [KE-35400]                                     |

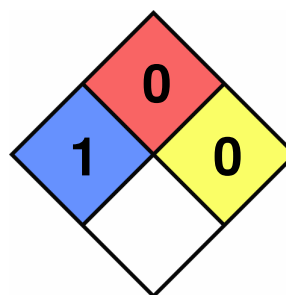
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name                   | CAS Number | MITI No.                                         |
|---------------------------------|------------|--------------------------------------------------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | (1)-503                                          |
| Sodium Carbonate                | 497-19-8   | (1)-164                                          |
| Water                           | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition) |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



### 16.2 Document Revision

**Last Revision Date:**  
 2026-07-07

## DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.