

# Safety Data Sheet

## Sodium Bisulfite

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Sodium Bisulfite

**Catalog Numbers:** SO-996

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
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

H302-Acute toxicity, oral: 4

H317-Sensitisation, skin: 1

H319-Serious eye damage/eye irritation: 2A

H334-Sensitisation, respiratory: 1

Consists of ingredients of unknown acute dermal toxicity.

Consists of ingredients of unknown acute inhalation toxicity.

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

#### Hazard Statements:

H302-Harmful if swallowed

H317-May cause an allergic skin reaction

H319-Causes serious eye irritation

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled

## Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264-Wash thoroughly after handling.  
P270-Do not eat, drink, or smoke when using this product.  
P272-Contaminated work clothing should not be allowed out of the workplace.  
P280-Wear protective gloves/eye protection/face protection.  
P284-In case of inadequate ventilation wear respiratory protection.  
P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.  
P302+P352-If on skin: Wash with plenty of soap and water.  
P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330-Rinse mouth.  
P333+P313-If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313-If eye irritation persists: Get medical advice/attention.  
P342+P311-If experiencing respiratory symptoms: Call a Poison Center/doctor.  
P362+P364-Take off contaminated clothing and wash it before reuse.  
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7631-90-5	Sodium Bisulfite	≤100

### 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. Seek medical attention.

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

**Oral Exposure:** If swallowed, seek immediate medical advice. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

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

### 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. During a fire, irritating gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray or alcohol-resistant foam.

**Hazardous Combustion Products:** Sulfur oxides, sodium oxides, potentially hazardous fumes and gases.

**Flash Point:** Not available

**Autoignition Temperature:** Not applicable

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

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

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation.

**Methods for Cleaning up:** Carefully sweep up and containerize for proper disposal. Avoid dust generation and accumulation. Do not release to the environment. Do not release to drains.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Minimize dust generation and accumulation. Keep in a tightly closed container. Store in a cool, dry, and well-ventilated area. Air and moisture sensitive. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**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.

**Exposure Limits:**

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - PELs
Sodium Bisulfite CAS#7631-90-5	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA (vacated)

Section 9 - Physical and Chemical Properties
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**Physical State:** Granular Solid

**Appearance:** White

**Odor:** Sulfurous

**Vapor Pressure:** Not available

**Odor Threshold:** Not available

**Vapor Density:** Not available

**pH:** 3.0-4.0 (1% Aqueous Solution)

**Relative Density:** 1.31-1.48

**Melting point/freezing point:** 300°C (572°F)

**Solubility:** Soluble in water

**Boiling Point:** 146°C (294.8°F)

**Flash Point:** Not available

**Evaporation Rate:** Not applicable

**Flammability (solid, gas):** Not flammable.

**Partition coefficient: n-octanol/water:** Not applicable for inorganic substances.

**Autoignition Temperature:** Not applicable

**Decomposition Temperature:** Not available

**Viscosity:** Not applicable

**Specific Gravity/Density:** Approx. 1.44

Section 10 - Stability and Reactivity
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**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, ignition sources, and excess heat. Exposure to air and moisture. Avoid dust formation.

**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, and metals.

**Hazardous Decomposition Products:** Sulfur oxides, sodium oxides, potentially hazardous fumes and gases.

Section 11 - Toxicological Information
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**CAS#7631-90-5 Sodium Bisulfite: RTECS# VZ2000000**

LD50 Oral: 1310 mg/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

**Investigated as a tumorigen and mutagen per RTECS.**

Skin corrosion/irritation: skin (rabbit), causes dermatitis.

**Carcinogenicity:** Sodium Bisulfite CAS#7631-90-5 is not listed by NTP, OSHA, or California Prop. 65. Sodium Bisulfite is listed by IARC (Group 3, Not Classifiable as to its Carcinogenicity to Humans) and ACGIH (A4, Not Classifiable as a Human Carcinogen).  
**Germ cell mutagenicity:** Chromosome aberration, rat. Negative.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Not available.

**Specific Target Organ Toxicity, Single Exposure:** Respiratory system.

**Specific Target Organ Toxicity, Repeated Exposure:** Not available.

**Symptoms associated with exposure:** Inhalation may cause respiratory irritation, cough, wheezing, shortness of breath, headache, chest pain. Ingestion may cause mucosal irritations, gastrointestinal irritation, nausea, vomiting, diarrhea. Skin contact may cause dermatitis, irritation, redness. May cause an allergic skin reaction. Eye contact may cause irritation, redness, watering, blurred vision, itching, pain.

**The toxicological properties of this material have not been thoroughly investigated.**

Section 12 - Ecological Information
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**Ecotoxicity:** Do not release to the environment. Do not release to drains.

**CAS#7631-90-5 Sodium Bisulfite:**

LC50, freshwater fish: 240 mg/L 96h (gambusia affinis)(mosquito fish)

EC50, water flea: 119 mg/L 48h (daphnia magna)

**Persistence and degradability:** No information available.

**Bio-accumulative potential:** No information available.

**Mobility:** Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations
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**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 SDS contains all the information required by the CPR.

## Section 16 - Additional Information

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

**Revision #1:** 2-3-15 RC

**Revision #2:** 5-25-22

**Revision #3:** 1-29-24

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