



# SAFETY DATA SHEET

Issue Date: 12-Oct-2021

Revision Date: 19-Oct-2022

Version 1.02

## 1. Identification

### Product identifier

**Product Name:** Sodium Bisulfite (SBS) 40%

### Other means of identification

**Product Code:** 59633

**Synonyms:** Sodium hydrogensulfite; SBS; Sodium acid sulfite; Sodium sulhydrate; Sodium hydrogensulfite aqueous solution; Sodium metabisulfite aqueous solution; Monosodium sulfite; Hydrogen sulfite sodium; Sulfurous acid, monosodium salt

**UN/ID No:** UN2693

### Recommended use of the chemical and restrictions on use

**Recommended Use:** Industrial, Manufacturing or Laboratory use.

**Restrictions on Use:** None known

### Details of the supplier of the safety data sheet

**Manufacturer:** Hawkins, Inc.  
2381 Rosegate  
Roseville, MN 55113  
(612) 331-6910

### Emergency telephone number

**Emergency Telephone:** CHEMTREC: 1-800-424-9300 (US) / +1 703-741-5970 (International)

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

### Hazards not otherwise classified (HNOC)

Contact with acids liberates toxic gas

### Label elements

**Signal word:** Danger

### Hazard statements:

Causes serious eye damage  
May be corrosive to metals



### Precautionary Statements - Prevention:

Wear eye protection/ face protection

Keep only in original container

#### Precautionary Statements - Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor  
Absorb spillage to prevent material damage

#### Precautionary Statements - Storage:

Store in corrosion resistant container with a resistant inner liner

**Unknown Acute toxicity:** Not applicable

#### Other Information

Not applicable

### 3. Composition/information on ingredients

Chemical name	CAS No	Weight-%
Sodium bisulfite	7631-90-5	38-42
Sodium Sulfate	7757-82-6	<4
Sodium sulfite	7757-83-7	<1
Water	7732-18-5	Balance

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

##### General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

##### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. May cause an allergic reaction in sensitive individuals.

##### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention.

##### Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. May cause an allergic reaction in sensitive individuals.

##### Ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

##### Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

##### Symptoms

Redness. Burning. May cause blindness. Burning sensation

#### Indication of any immediate medical attention and special treatment needed

##### Note to physicians

Repeated or prolonged inhalation may cause asthma-like symptoms. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals. The potential for exposure to sulfur dioxide must always be considered as well, particularly when the solution may become overheated. Sulfur dioxide given off by this product has been shown to cause breathing difficulties in asthmatics.

### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	Contact with metals may evolve flammable hydrogen gas. Under heated conditions or on contact with acids will produce the toxic gas sulfur dioxide. Risk of fire and explosion on contact with acids or oxidants. Sodium sulfide may be formed after dried solution residues are heated. This is an explosive hazard and strongly alkaline in contact with water.
<b>Hazardous combustion products</b>	Sulfur dioxide. Oxides of sulfur. Sodium oxides.
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

**Methods for cleaning up** Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Sulfur dioxide and carbon dioxide may be released if product is neutralized during clean up.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Store above 50°F to avoid crystallization. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Incompatible Materials** Oxidizing agent. Acids. Metals. Combustible material.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium bisulfite 7631-90-5	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Sulfur dioxide 7446-09-5	STEL: 0.25 ppm	TWA: 5 ppm TWA: 13 mg/m <sup>3</sup> (vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) STEL: 5 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 100 ppm TWA: 2 ppm TWA: 5 mg/m <sup>3</sup> STEL: 5 ppm STEL: 13 mg/m <sup>3</sup>

**Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

#### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced and ventilation is insufficient, a suitable respirator or evacuation may be required.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

**Physical State:** Liquid  
**Appearance:** Clear  
**Color:** Yellow to green  
**Odor:** Slight odor of sulfur dioxide  
**Odor Threshold:** No information available

**pH:**  
**pH Range:** 3.5-5.0  
**Salt Out Point:** No information available  
**Melting Point/Freezing Point:** 7 °C / 45 °F  
**Boiling Point/Boiling Range:** ~ 104 °C / 219 °F  
**Flash Point:** No information available  
**Evaporation Rate (BuAc=1):** No information available  
**Flammability (solid, gas):** No information available  
**Flammability Limits in Air:** No information available  
**Vapor Pressure (mm Hg):** No information available  
**Vapor density (Air =1):** No information available  
**Specific Gravity (H<sub>2</sub>O=1):** 1.35  
**Water Solubility:** Soluble  
**Solubility(ies):** No information available  
**Partition Coefficient (n-octanol/water):** No information available  
**Autoignition Temperature:** No information available

**Decomposition Temperature:** No information available  
**Kinematic Viscosity:** No information available  
**Dynamic Viscosity:** No information available

**Other information**

**Explosive properties** No information available  
**Oxidizing properties** No information available  
**Molecular Weight:** N/A

**10. Stability and reactivity**

**Reactivity** Contact with acids liberates toxic gas. Contact with metals may evolve flammable hydrogen gas.

**Chemical stability** Decomposes on heating. Under heated conditions or on contact with acids will produce the toxic gas sulfur dioxide.

**Possibility of hazardous reactions** Decomposes on heating and on contact with acids. This produces toxic sulfur dioxide gas. Oxidizing agents may cause exothermic reactions.

**Conditions to avoid** Exposure to air or moisture over prolonged periods. On exposure to air, the product will lose some sulfur dioxide and gradually oxidize to sulfate. Temperatures at or near boiling point causes evolution of sulfur dioxide.

**Incompatible Materials** Oxidizing agent. Acids. Metals. Combustible material.

**Hazardous decomposition products** Sulfur dioxide. Sulfur oxides. Sodium oxides.

**11. Toxicological information****Information on likely routes of exposure****Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness.

**Numerical measures of toxicity****Acute Toxicity:**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 3,064.00 mg/kg

**Component Information**

Chemical name	Oral LD <sub>50</sub> :	Dermal LD <sub>50</sub> :	LC <sub>50</sub> (Lethal Concentration):
Sodium bisulfite 7631-90-5	= 1310 mg/kg ( Rat )	-	-
Sodium Sulfate 7757-82-6	> 10000 mg/kg ( Rat )	-	> 2.4 mg/L ( Rat ) 4 h
Sodium sulfite 7757-83-7	= 5680 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 22 mg/L ( Rat ) 1 h
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	See section 2 for classified hazards based on component information.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium bisulfite 7631-90-5	-	Group 3	-	-
Sodium sulfite 7757-83-7	-	Group 3	-	-

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

Group 3 - Not Classifiable as to Carcinogenicity in Humans

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Other Adverse Effects:</b>	No information available.

**12. Ecological information**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium bisulfite 7631-90-5	-	-	-	119 mg/L (EC50 48 h - Daphnia magna)
Sodium Sulfate 7757-82-6	-	13500 - 14500 mg/L (LC50 96 h - Pimephales promelas) 6800 mg/L (LC50 96 h static - Pimephales promelas) 3040 - 4380 mg/L (LC50 96 h static - Lepomis macrochirus) 13500 mg/L (LC50 96 h - Lepomis macrochirus)	-	2564 mg/L (EC50 48 h - Daphnia magna)

<b>Persistence and Degradability:</b>	No information available.
<b>Bioaccumulation:</b>	There is no data for this product.
<b>Component Information</b>	

Chemical name	Partition Coefficient:
Sodium sulfite 7757-83-7	-4

**Mobility:** No information available.

**Other Adverse Effects:** No information available.

### 13. Disposal considerations

#### Waste treatment methods

#### **Waste from residues/unused products**

Dispose of in accordance with local, state, and national regulations. Dispose of waste in accordance with environmental legislation.

#### **Contaminated packaging**

Do not reuse empty containers.

### 14. Transport information

#### DOT

**UN/ID No** UN2693  
**Proper shipping name** BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (SODIUM BISULFITE)  
**Hazard Class** 8  
**Packing Group** III  
**Description** UN2693, BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (SODIUM BISULFITE), 8, PG III



### 15. Regulatory information

#### International Inventories

Chemical name	TSCA	AICS	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Sodium bisulfite 7631-90-5	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Sodium Sulfate 7757-82-6	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Sodium sulfite 7757-83-7	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Water 7732-18-5	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**AICS** - Australian Inventory of Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 and later calendar years will need to be consistent with updated hazard classifications.

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Extremely Hazardous Substances TPQ
Sodium bisulfite 7631-90-5	5000 lb	-	

**Clean Water Act (CWA)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium bisulfite 7631-90-5	5000 lb	-	-	X

**OSHA - Process Safety Management - Highly Hazardous Chemicals**

This product does not contain any substances regulated under Process Safety Management (29 CFR 1910.119).

**Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS)**

This product does not contain any substances regulated under the Chemical Facility Anti-Terrorism Standards (6 CFR 27).

**16. Other information****NSF/ANSI 60 Certification**

**Maximum Use (mg/L unless otherwise indicated):** 46

**Prepared By:** HSE Department  
**Issue Date:** 12-Oct-2021  
**Revision Date:** 19-Oct-2022  
**Revision Note:** SDS sections updated. 16.

**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



**End of Safety Data Sheet**