



CLEAR CHEM
SOLUTIONS

SAFETY DATA SHEET

Issue Date: 1-Aug-2025

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Version 1

1. Identification

Product identifier

Product Name: CCS - Sodium Bisulfite (SBS) 40%

Other means of identification

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)

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.

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

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	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.
Hazardous combustion products	Sulfur dioxide. Oxides of sulfur. Sodium oxides.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	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.
<u>Methods and material for containment and cleaning up</u>	
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.
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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. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store above 50°F to avoid crystallization.
Incompatible Materials	Oxidizing agent. Strong acids. Strong bases. 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
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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
Sulfur dioxide 7446-09-5	STEL: 0.25 ppm	TWA: 5 ppm TWA: 13 mg/m ³ (vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m ³ (vacated) STEL: 5 ppm (vacated) STEL: 15 mg/m ³	IDLH: 100 ppm TWA: 2 ppm TWA: 5 mg/m ³ STEL: 5 ppm STEL: 13 mg/m ³
Sodium bisulfite 7631-90-5	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³

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.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

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 (H₂O=1): 1.35
Water Solubility: Soluble
Solubility(ies): No information available
Partition Coefficient No information available

(n-octanol/water):

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: 104.06

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. Strong acids. Strong bases. Acids. Metals. Combustible material.

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

11. Toxicological informationInformation 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.

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) 3,064.0329 mg/kg
 ATEmix (inhalation-dust/mist) 31.40 mg/l

Component Information

Chemical name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (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

- Skin corrosion/irritation** May cause skin irritation.
- Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
- Respiratory or skin sensitization** No information available.
- Germ cell mutagenicity** No information available.
- Carcinogenicity** 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

- Reproductive toxicity** No information available.
- STOT - single exposure** No information available.
- STOT - repeated exposure** No information available.
- Aspiration hazard** No information available.
- Other Adverse Effects:** 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)

Persistence and Degradability: No information available.

Bioaccumulation: There is no data for this product.

Component Information

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
Water 7732-18-5	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

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: Clear Chem Solutions LLC
 Issue Date: 1-Aug-2025
 Revision Date: 1-Aug-2025
 Revision Note:

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