



PURIFY

SAFETY DATA SHEET

SODIUM BISULFITE SOLUTION

I. IDENTIFICATION

Product Name: Sodium Bisulfite Solution	Distributor:	Purify 1707 Townhurst Drive Houston, TX 77043
Synonym: SBS	Phone:	713-463-1929
CAS #: 7631-90-5	Website:	www.purifywt.com
Recommendations / Restrictions on Use: Use only for proper and legal purposes.	Emergency Contact:	1-800-424-9300 (CHEMTREC)

II. HAZARDS IDENTIFICATION

Classifications:
Acute Toxicity Oral, Category 4
Skin Irritation, Category 3
Eye Irritation, Category 2A
Corrosive to Metals, Category 1
Specific Target Organ Toxicity
- Single Exposure, Category 3

Classifications:
Harmful if swallowed.
Causes mild skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May be corrosive to metals.

Signal Word: Warning
Symbols:



Precautionary Statements:

Prevention	Keep in original container. Avoid breathing vapors. Wash affected body parts after handling. Do not eat, drink, or smoke when using this product. Use in well-ventilated areas. Wear eye/face protection.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. IF SWALLOWED: Rinse mouth and call a doctor if you feel unwell. IF INHALED: Remove victim to fresh air and keep comfortable for breathing. If eye irritation persists, get medical attention. If skin irritation occurs, get medical attention.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Formula	CAS Number	%
Sodium Bisulfite	NaHSO ₃	7631-90-5	15-44
Sodium Sulfite	Na ₂ SO ₃	7757-83-7	< 1
Sodium Sulfate	Na ₂ SO ₄	7757-82-6	< 4
Water	H ₂ O	7732-18-5	Balance

IV. FIRST AID MEASURES

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses.	Seek medical attention.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and water.	Seek medical attention if you feel unwell.
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen.	Seek medical attention if you feel unwell.
Ingestion:	If swallowed, DO NOT induce vomiting. Rinse mouth.	Seek medical attention if you feel unwell.

V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Protective Equipment and Firefighter Precautions:

Use NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes. CAUTION: When subject to excess heat, product releases additional sulfur dioxide gas.

NFPA Hazard Rating:

Health (Blue):	2
Fire (Red):	0
Reactivity (Yellow):	1
Special Instructions (White):	None

NFPA Hazard Classification:

0=Least 1=Slight 2=Moderate 3=High 4=Extreme

VI. ACCIDENTAL RELEASE MEASURES

Procedures if Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Containment / Cleaning:	Neutralize with appropriate alkali such as sodium hydroxide or soda ash. Avoid conditions where the pH of spilled material is maintained at lower than pH 6, since sulfur dioxide can be released at ambient temperatures below this pH.

VII. HANDLING AND STORAGE

Precautions for Safe Handling:	Keep separated from incompatible substances. Handle only with equipment, materials, and supplies specified by their manufacturer as being compatible and appropriate for use with this product.
Conditions for Safe Storage:	Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate SII Product Bulletin for temperature recommendations. Do not store this material near food, animal feed, or drinking water. Store in a well-ventilated area. Store away from excessive heat (ex: steam pipes, radiators) and reactive materials. Keep container tightly closed when not in use.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT WORKPLACE CONTROL PARAMETERS

Components: Sodium Bisulfite

CAS #: 7631-90-5

Value: TWA

Parameters: 5 mg/m³

Basis: Solid sodium bisulfite (metabisulfite)

HMIS Rating:

Health (Blue): 2

Flammability (Red): 0

Physical Hazard (Yellow): 1

PPE (White): See PPE

Hazard Classification:

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit values.

INDIVIDUAL PROTECTION MEASURES:

Eye: Use chemical splash goggles and face shield. Eye protection worn must be compatible with respiratory protection system employed.

Skin: Chemically-resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Respiratory: No protection equipment required under normal conditions. When conditions warrant a respirator, use NIOSH-approved respirator and cartridge for particulates and sulfur dioxide.

Other Protective Items: Where splash is possible, full chemically-resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the workstation location.

General Hygiene: Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	pH:	3.5 - 5.0
Appearance:	Clear to yellow	Molecular Weight:	104.1 g/mol for NaHSO ₃
Odor:	Pungent odor	Odor Threshold:	Data Not Available
Specific Gravity: (H ₂ O = 1)	1.13 - 1.38 @ 77°F / 25°C	Weight per Gallon:	9.4 to 11.3 lbs. @ 77°F / 25°C
Vapor Density: (Air = 1)	Similar to Water	Vapor Pressure:	<32 mmHg total (12 mmHg SO ₂) @ 77°F / 25°C
Boiling Point:	~ 217°F / 103°C	Freezing/Melting Point:	15.8°F / -9°C
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flash Point:	Not Applicable	Autoignition Temperature:	Not Applicable
Solubility in Water:	Dilutable	Other:	Not Applicable

X. STABILITY AND REACTIVITY

Reactivity:	N/A
Chemical Stability:	Stable under normal or expected use.
Hazardous Reactions:	N/A
Conditions to Avoid:	Avoid exposure to excessive heat.
Incompatible Materials:	Avoid contact with acids and oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may yield toxic fumes of sulfur dioxide.

XI. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:
Eyes, Skin, Ingestion, and Inhalation

Symptoms of Exposure:

Eye Contact:	Causes serious eye irritation.
Ingestion:	May be harmful if swallowed.
Skin Contact:	Causes mild skin irritation.
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.

Comments:
Sulfite-sensitive individuals may experience an allergic reaction.

Carcinogenicity:

NPT:	Not listed.
IARC:	Not listed.
OSHA:	Not regulated.

Experimental Results:

Ingredient:	Sodium Bisulfite Solution
Species:	Rat
Test:	2000 mg/kg
Route:	Oral
Results:	LD50

XII. ECOLOGICAL INFORMATION

Ecotoxicity Experimental Results:	Ingredient: Sodium Bisulfite Solution
	Species: Mosquitofish
	Test: 240 ppm
	Period: 96 hours
	Results: LC50

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal: Always dispose of material in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

Proper Shipping Name:	Bisulfites, aqueous solutions, n.o.s. (contains Sodium Bisulfite)		
DOT Classification:	8	Packing Group:	3
Identification Number:	UN2693	Other Labels:	Corrosive
Reportable Quantity (RQ):	5000 pounds (2,270 kg) or 8000 gallons (based on 40% active ingredient)		

XV. REGULATORY INFORMATION

Inventory Status:	U. S. TSCA: Yes	Korean KECI: Yes
	Europe EINECS: Yes	Philippines PICCS: Yes
	Canadian DSL: Yes	Australian AICS: Yes
	Japan ENCS: Yes	

U. S. Regulations:

SARA 302 TPQ:	Not Listed
SARA 304 RQ:	Not Listed
SARA 313 List:	Not Listed
CERCLA (RQ):	5,000 lbs. on dry weight basis for sodium bisulfite.
RCRA 261.33:	Not Listed
CAA 112r (RMP):	Not Listed
SARA 311/312:	Acute

International Regulations:

Canada WHMIS:	E	Corrosive
	D-2B	Toxic material causing other toxic effects.
EINECS:	231-548-0	

Other Regulations:

California PROP 65:	Not Listed
FDA GRAS:	21 CFR 182.3739

XVI. OTHER INFORMATION

NSF Certification:	Sodium bisulfite manufactured at Pasadena, TX; Williamsport, MD; and Tuscaloosa, AL is NSF-60 Certified. Maximum use in potable water is 150 mg/L.
Revision Notes:	Rev. 09/29/2020



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