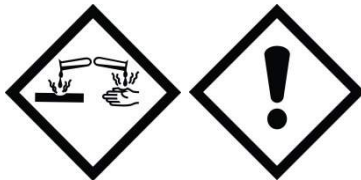


1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: Sodium Bisulfite Solution
Synonyms: Sodium Hydrogen Sulfite Solution, Sulfurous Acid
Intended use: Water dechlorination, food and pharmaceutical preservative, reducing agent and color preservative.
Uses Advised Against: None known.
Company Identification DPC Industries, Inc.
DPC Enterprises, LP
DXI Industries, Inc.
DX Terminals
PO Box 24600
Houston, TX 77229-4600
Emergency
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. (281) 457-4888
www.dxgroup.com

2. Hazard identification of the product

Physical hazards	May be corrosive to metals.	Category 1
Health hazards	May be harmful if swallowed. Skin corrosion/irritation Serious eye irritation	Category 5 Category 2 Category 2a
Label elements Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. <div style="text-align: center;">  </div>		
Signal Word	Warning	
Hazard Statements	Causes severe skin burns and eye damage. May be corrosive to metals. Harmful if swallowed.	
Precautionary Statements		
Prevention	Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Do not breathe mist or vapor. Wash thoroughly after handling.	
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with shower/water. Wash contaminated clothing before reuse. If skin irritation or rash, get medical attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing. If irritation persists, get immediate medical attention.	
Storage	Store locked up. Store in corrosive resistant container.	
Disposal	Dispose of contents / container in accordance with local / national regulations.	
Hazard(s) not otherwise classified (HNOC)	Not known.	

3. Composition/information on ingredients

Synonyms: Sodium Hydrogen Sulfite Solution, Sulfurous Acid
Substance classified with a health or environmental hazard. Substance with a workplace exposure limit.

Ingredient	CAS Number:	Weight %
Sodium Bisulfite	7631-90-5	25 - 50

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4. First Aid Measures

General	Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Move victim to fresh air. Call emergency medical care. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
Eyes	Irrigate copiously with clean fresh water for at least 20 minutes, holding the eyelids apart. Remove contact lenses, if present, and safe to do so – continue rinsing. If irritation persists, get immediate medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Obtain IMMEDIATE MEDICAL ATTENTION.
Most important symptoms and effects, both acute and delayed	
Overview	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
Indication of immediate medical attention and special treatment needed	May be harmful if swallowed. Liquid or mist may cause: eye discomfort, tearing, redness, and blurred vision. Skin contact may cause rash, redness, swelling, scaling, or blistering. Inhalation may cause coughing, and shortness of breath.

5. Fire-fighting measures

Recommended Extinguishing media	Alcohol resistant foam, CO ₂ , powder, water spray.
Unsuitable extinguishing media	Do not use; water jet.
Special hazards arising from the substance or mixture	Sulfur oxides. Sulfur dioxide. Metal oxides. Sodium sulfide may be formed after dried solution residues are heated. This is an explosive hazard and strongly alkaline in contact with water.
Advice for fire-fighters	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. ERG Guide No. 154

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Evacuate unprotected personnel from area. Maintain adequate ventilation. Wear appropriate PPE. Never exceed any occupational exposure limit. Eliminate all sources of ignition. Shut off source of leak if safe to do so. Contain spill, place into drums for proper disposal. Neutralize with an alkali (sodium carbonate, lime, etc.) Sulfur dioxide and carbon dioxide may be released during neutralization. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters.
Environmental precautions	Do not allow spills to enter drains or watercourses.
Methods and material for containment and cleaning up	For large spills, dike far ahead of contaminated runoff for later disposal. CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed in Section 1. As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.

Safety Data Sheet

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residues; observe all warnings and precautions listed for the product.
Conditions for safe storage, including any incompatibilities	Corrosive material. Store in a cool, well ventilated area. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Store away from all sources of heat and ignition to prevent decomposition and release of sulfur dioxide gas. Do not freeze. Protect containers against physical damage..

8. Exposure controls and personal protection

Exposure Control parameters

CAS No.	Material	Source	Value
7631-90-5	Sodium Bisulfite.	OSHA	No Established Limit
		ACGIH	TWA: 5 mg/m3
		NIOSH	TWA 5 mg/m3

Individual protection measures, such as personal protective equipment

Respiratory	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
Eyes	Wear safety glasses with side shields and/or safety goggles to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical impervious gloves. Emergency eyewash station should be in close proximity.
Engineering Controls	Avoid creating dust or mist. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance:	Yellow Liquid
Odor:	Pungent Sulfur Dioxide Gas Odor
Odor threshold:	Not Measured
pH:	3 - 5
Melting point / freezing point:	45 °F
Initial boiling point and boiling range:	220 °F
Flash Point:	Not Applicable
Evaporation rate (Ether = 1):	< 1
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Lower Explosive Limit: Not Applicable
	Upper Explosive Limit: Not Applicable
Vapor pressure (mmHg):	9 mmHg
Vapor Density:	Not Established
Specific Gravity:	1.30 - 1.40
Solubility in Water:	Complete
Partition coefficient n-octanol/water (Log Kow):	Not Measured
Auto-ignition temperature (°C):	Not Measured
Decomposition temperature:	Not Measured
Viscosity (cSt):	Not Measured
VOC %:	Not Measured
Other information:	No other relevant information.

Safety Data Sheet

10. Stability and reactivity

Reactivity	Hazardous polymerization will not occur.
Chemical stability	Stable under normal circumstances.
Possibility of hazardous reactions	Oxidizing agents may cause exothermic reactions. Both acidification and heating accelerate the release of sulfur dioxide fumes.
Conditions to avoid	Temperatures at or near boiling point causes evolution of sulfur dioxide. Avoid excess exposure to air. On exposure to air, the product will lose some sulfur dioxide and gradually oxidize to sulfate.
Incompatible materials	Oxidizing agents and acids.
Hazardous decomposition products	Sulfur dioxide gas. Sulfur oxides.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation LC50, mg/L
Sodium Bisulfite (7631-90-5)	1,540.00, Rat	No data available	No data available

Item	Hazard
Acute Toxicity (mouth)	May be harmful if swallowed.
Acute Toxicity (skin)	May be corrosive.
Acute Toxicity (inhalation)	May cause respiratory irritation or burns.
Skin corrosion/irritation	Severe irritation and burns may result.
Eye damage/irritation	Severe irritation and burns may result.
Sensitization (respiratory)	Not Applicable
Sensitization (skin)	Prolonged or repeated exposure may cause dermatitis, and sensitization reactions.
Germ toxicity	Not Applicable
Carcinogenicity	Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	Not Applicable
Specific target organ systemic toxicity (single exposure)	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.
Aspiration hazard	Not Applicable

12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	LC50/96hr fish, mg/l	EC50/48hr crustacea, mg/l	EC50 algae, mg/l
Sodium bisulfite (7631-90-5)	240.00 Mosquito Fish	119.00 Daphnia magna	Not Available

Persistence and degradability:	There is no data available on the preparation itself.
Bioaccumulative potential:	Not Measured
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	This product contains no PBT/vPvB chemicals.
Other adverse effects:	High concentrations will contribute to elevated chemical oxygen demand in aquatic environments.

Safety Data Sheet

13. Disposal considerations

Waste treatment methods:	Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.
Waste from material:	The waste determination should be made in discussion between the user and the waste disposal company.
Container Management:	Empty containers or liners may retain some product residues.

14. Transport information

UN number:	UN2693
UN proper shipping name:	Bisulfites, Aqueous Solutions, N.O.S.
Transport hazard class(es)	
DOT (Domestic Surface Transportation)	
DOT Proper Shipping Name:	Bisulfites, Aqueous Solutions, N.O.S (Sodium Bisulfite)
DOT Hazard Class	8
DOT Label:	8
UN / NA Number:	UN2693
DOT Packing Group:	III
CERCLA/DOT RQ:	5000-lbs.
Environmental hazards:	IMDG Marine Pollutant: No
Special precautions for user:	Not Applicable

15. Regulatory information

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.			
WHMIS Classification:	Not Regulated			
OSHA REGULATORY STATUS:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)			
US EPA Tier II Hazards:	Fire:	No	Immediate (Acute):	Yes
	Sudden Release of Pressure:	No	Delayed (Chronic):	No
	Reactive:	No		
SARA 302 Extremely Hazardous Substance / RQs (lbs) :	No			
SARA 311/312 Chemicals and RQs (lbs) (>0.1%) :	Yes (5,000-lbs)			
SARA 313 (TRI)	No			
OSHA PSM (29 cfr 1910.119):	No			
TSCA:	Sodium Bisulfite			
State Regulations:	N.J. RTK Substances (>1%)	Listed	Penn RTK Substances (>1%)	Listed
			California Prop 65	Not listed

16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.