




Safety Data Sheet

1. Product Identifier and Company Identification

Product name	: Sodium Bisulfite	
HBCC SDS number	: CS05200	
Synonym	: Sodium Acid Sulfite, Sodium Hydrogen Sulfite	
Product use and Restrictions	: Refer to label or call	
Manufacturer	: Corporate Headquarters	Corporate Safety & Compliance
Contact Address	Hill Brothers Chemical Company 1675 North Main Street Orange, California 92867 714-998-8800 800-821-7234	Hill Brothers Chemical Company 7121 West Bell Road, Suite 250 Glendale, Arizona 85308 623-535-9955 - Office 623-535-9944 - Fax
Emergency telephone Number (Chemtrec)	: 800-424-9300	
Website	: http://hillbrothers.com	

2. Hazard Identification

Classification	: Skin Corrosion/Irritation – Category 2 Serious Eye Damage/Eye Irritation – Category 2A Specific Target Organ Toxicity (Single Exposure)(Respiratory tract irritation) – Category 3
Signal Word	: Warning
Pictogram(s)	: 
Hazard Statements	: H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation.
Precautionary Statements	
Response	: P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical advice/attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
P271 - Use only outdoors or in a well-ventilated area.
P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local/regional/national and international regulation.

3. Composition/Information on Ingredients

CAS Number	Ingredient Name	Weight %
7631-90-5	Sodium Bisulfite	<40%
<u>7757-83-7</u>	<u>Sodium Sulfite</u>	<u><4%</u>
<u>7757-82-6</u>	<u>Sodium Sulfate</u>	<u><1%</u>
<u>7732-18-5</u>	<u>Water</u>	<u>>55%</u>

4. First Aid Measures

Summary of First Aid Measures

Ingestion : If this product is swallowed, call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person drink several glasses of water if able to swallow. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of label and MSDS to health professional with victim.

Inhalation : If vapors, mists, or sprays of this product are inhaled, remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth if possible. Remove or cover gross contamination to avoid exposure to rescuers. Do not give anything by mouth to an unconscious person.

Skin : If the product contaminates the skin, rinse skin immediately with plenty of water for 15 minutes. Take off contaminated clothing, taking care not to contaminate eyes. Victim must seek medical attention. Call a poison control center or doctor for treatment advice.

Eyes : If this product enters the eyes, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Do not attempt to neutralize. Oils or ointments should not be used at this time. Call a poison control

center or doctor for treatment advice. Victim must seek immediate medical attention.

Medical Conditions : May also cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

Effects of Overexposure : N/A

Summary of Acute Health Hazards : N/A

Ingestion : This product may cause irritation to the gastro-intestinal tract. Large doses may cause diarrhea, Central Nervous System Depression colic and death. May also cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

Inhalation : If mists or sprays of this solution are inhaled, this product may cause irritation to respiratory tract. May cause allergic reaction in sensitive individuals. If mixed with acids, sodium bisulfite will release large amounts of sulfur dioxide gas. This gas can cause severe irritation of the nose and throat. Exposure to high levels of sulfur dioxide gas may result in severe lung damage.

Skin : Can cause burns and severe irritation to the skin and mucous membranes.

Eyes : Can cause severe irritation to the eyes.

Note to Physicians : N/A

Summary of Chronic Health : N/A

5. Fire Fighting Measures

Extinguishing : Carbon dioxide, dry chemical, foam, halon, or water spray.

Special Exposure Hazards : Sodium bisulfite solution is not flammable or combustible. Fires that occur in the presence of sodium bisulfite solution should be extinguished using means appropriate to the surroundings. When sodium bisulfite in solution decomposes (at very high temperatures), it liberates toxic sulfur dioxide and sulfur oxides. Not considered flammable or combustible. This material, when heated, may release sulfur dioxide gas. Run-off from fire control may cause pollution.
Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination. Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

Special Protective Equipment : If involved in a fire, this product may decompose to produce a variety of compounds, i.e. sulfur dioxide, sodium oxide, oxygen), Emergency responders must wear the proper personal protective equipment suitable for

this situation to which they are responding. Products of combustion are irritating to the respiratory tract and may cause breathing difficulty.

Fire Fighting Procedures

- : If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, discard or decontaminate fire response equipment using before returning such equipment to service.

NFPA Rating

- : Health - 2
Flammability - 0
Instability - 0



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

Uniform Fire Code Rating

- : N/A

6. Accidental Release Measures

Personal Precautions

- : Proper protective equipment should be used. The proper personal protective equipment for incidental releases (e.g. ~1 L of the product released in a well-ventilated area) use impermeable gloves, specific for the material handled, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard-hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

Emergency Procedures

- : Uncontrolled releases should be responded to by trained personnel using pre-planned procedures.

Methods of Containment And Clean-Up

- : In case of a spill, clear the affected area, protect people, and respond with trained personnel. Absorb spilled liquid with polypads or other suitable absorbent materials. Neutralize residue with sodium bicarbonate and water rinse. Decontaminate the area thoroughly. Test area with litmus paper to confirm neutralization. Place all spill residue in a suitable container.

7. Handling and Storage

Safe Handling Storage

- : Sodium bisulfite solution continually liberates sulfur dioxide (SO₂), a toxic gas. Proper care should be taken to prevent exposure to this toxic gas by using proper personal protective equipment of ensuring proper ventilation.

Exposures can occur at a sodium bisulfite solution manufacturing facility or a manufacturing, packaging or storage facility that handles sodium bisulfite solution. Exposure may also occur in the event of a transportation incident. Persons involved in maintenance, sampling and testing activities, or in the loading and unloading of sodium bisulfite solution containers are at greater risk of exposure. Following good industrial hygiene practices will minimize the likelihood of sodium bisulfite solution exposure; however, persons involved in higher risk activities should always wear proper personal protective equipment such as protective gloves and goggles. In instances where the potential for misting is high, proper respiratory protection should also be worn. Avoid all bodily contact. Do not take internally. Wash thoroughly after handling. Avoid breathing mist. Open containers carefully. Store away from acids and oxidizers.

Work/Hygienic Practices

: Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Ventilation

: Use ventilation to maintain TLV below 5 mg/m³. If required use a corrosion resistant ventilation system separate from other exhaust ventilation systems to ensure that there is no potential for overexposure to sprays, mists of this product.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

:

Chemical Name: Sodium Bisulfite				
Exposure Limits (TWAs) in Air				
CAS Number	Chemical	ACGIH TLV	OSHA PEL	STEL
7631-90-5	Sodium Bisulfite	5 ppm as SO ₂	5 ppm as SO ₂	N/A
7757-82-6	Sodium Sulfate	N/A	N/A	N/A

Protective Equipment

: Rubber gloves, rubber boots, and rubber apron.

Eye Protection

: Chemical safety goggles.

Respiratory

: None normally required. (Respirator if TLV above 5 mg/m³) If adequate ventilation is not available or if there is potential for airborne exposure above the exposure limits (listed in Section II) a respirator may be worn up to respirator exposure limitations, check with respirator equipment manufacturer's recommendation/limitations. For a higher level of protection use positive pressure supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

9. Physical and Chemical Properties

Appearance: Yellow liquid	Odor: Slightly sulfurous odor
Odor Threshold: N/A	pH: 4.8 – 5.2
Melting Point/Freezing Point: 26° F	Initial Boiling Point/Range: 210 – 220° F
Flash Point: N/A	Evaporation Rate (BuAc=1): N/A
Flammability: N/A	Lower/Upper Explosive Limit: N/A
Vapor Pressure (mmHg @ 20° C): N/A	Vapor Density (Air=1): N/A
Density at 25° C (77° F): -10.9-11.7 lbs/gal	Solubility in Water: Complete
% Volatiles: N/A	Specific Gravity (Water=1): 1.1 - 1.4
Molecular Weight: 104.06 g/mol.	VOC: N/A

10. Stability and Reactivity

Reactivity : N/A

Chemical Stability : Stable

Possibility of Hazardous Reactions or Polymerizations : N/A

Conditions to Avoid : Temperature at or near boiling causes evolution of toxic and corrosive sulfur dioxide gas. Sulfur dioxide is also evolved slowly at ambient temperatures.

Incompatible Materials : Sodium nitrite, aluminum powder, acids, and oxidizing agents

Hazardous Decomposition Products : Sulfur dioxide gas

11. Toxicological Information

Mildly Toxic (LD [Human] = 10G)

This product is irritating to contaminated tissue.

Sodium Bisulfite may also cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

Acute and Chronic Effects : Spills of sodium bisulfite solution should be contained and isolated from waterways and sewers or drains. Sodium bisulfite solution releases sulfur dioxide, a poisonous gas. Spills should be recovered and placed in a compatible container. Dispose of waste or residues in accordance with applicable local, state or federal regulations. Persons attempting to clean up sodium bisulfite solution spills should wear proper personal protective equipment.

Routes of Exposure

Ingestion : Yes
Inhalation : Yes
Skin : Yes
Eyes : Yes

Symptoms related to Physical, Chemical & Toxicological Characteristics : N/A

Numerical Measures of Toxicity : N/A

Chronic Toxicity : N/A

Carcinogenicity : N/A

Product Name: Sodium Bisulfite					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

TARGET ORGANS : N/A

12. Ecological Information

Ecotoxicity : N/A

Persistence and Degradability : N/A

Bioaccumulative Potential : N/A

Product/Ingredient	Log P_{ow}	BCF	Potential
-	-	-	-

Mobility in Soil : N/A

13. Disposal Considerations

Disposal of Container : If collected material can be dissolved, it may be discharged to an industrial waste water collection system. Consult local, state or federal regulatory agencies before disposing of any material.

14. Transport Information

UN#	: UN2693
Proper Shipping Name	: UN2693, Bisulfites, aqueous solutions, n.o.s., 8, PG III
Hazard Class/Division	: 8
Packing Group	: III
Marine Pollutant	: No
Special Provisions	: IB3, T7, TP1, TP28
Emergency Response Guidebook	: 2012 ERG, Guide 154, pages 246-247
Placard Advisory	:



15. Regulatory Information

SARA 302 Extremely Hazardous Substance (EHS) : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) under Section 302 of EPCRA.

SARA 304 Extremely Hazardous Substance (EHS) : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) which would require reporting under Section 304 of EPCRA if released to the environment in quantities at or above the RQ (reportable quantity).

SARA 311/312 Hazard Classifications :

Sara 311/312 Hazards				
Acute	Chronic	Flammability	Pressure	Reactivity
Yes	No	No	No	No

SARA 313 Supplier Notification : This product contains the following chemical(s) subject to the reporting requirements of Section 313 of EPCRA (40 CFR 372) and Section 6607 of the Pollution Prevention Act.
Sodium Bisulfite, CAS #7631-90-5

CERCLA Hazardous Substance : No chemical in this product is listed as a CERCLA hazardous substance subject to release reporting requirements to the National Response Center (NRC).

Clean Air Act (CAA) : No chemical in this product is listed as an air pollutant under the U.S. Clean Air Act, Section 112(r) (40 CFR 61).

California Prop 65 : This product does not contain any chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Label Warning : This product does not require hazard label warnings.

TSCA (Toxic Substances Control Act) : All chemical substances in this product are listed on the U.S. TSCA Inventory List.

16. Other Information

Revision date : 06/29/2016
Supersedes : 05/26/2015
First Issue : 10/03/1996
Chemical Family/Type : Inorganic Salt

Section(s) changed since last revision : Section 14

IMPORTANT! Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control; **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.