

MATERIAL SAFETY DATA SHEET



1. Chemical Product and Company Identification

Slack Chemical Company, Inc.
465 S. Clinton St.
Carthage, NY 13619
(315) 493-0430

24 Hour Emergency Number
CHEMTREC: 1-800-424-9300

Product Name

Sodium Bisulfite

Chemical Name

Sodium bisulfite

Synonyms

Sodium hydrogen sulfite, sodium acid, sulfite, NaHSO₃

Intended Use

Dechlorination, oxygen scavenging, reducing agent, chemical intermediate

2. Hazards Identification

Emergency Overview

DANGER! Corrosive – Causes skin and eye burns. May be fatal if swallowed or inhaled. May cause sensitization by inhalation.

Potential Health Effects

Ingestion

Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Skin

Causes chemical burns.

Eyes

Causes chemical burns. May cause blindness.

Inhalation

May cause respiratory tract irritation. Sulfur dioxide given off by this product has been shown to cause breathing difficulties in asthmatics.

3. Composition/Information on Ingredients

<u>Component</u>	<u>CAS#</u>	<u>% Wt/Wt</u>
Sodium Bisulfite	7631-90-5	10 - 40
Water	7732-18-5	Balance

4. First Aid Measures

Ingestion

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious or is convulsing.

Skin

Immediately flush with cool water for at least 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

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Eyes

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for at least 15 minutes. Obtain medical attention immediately.

Inhalation

If symptoms develop move victim to fresh air. If symptoms persists, obtain medical attention.

5. Fire Fighting Measures

Flammable Properties

None.

Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Fire-Fighting Procedures

Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for Containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Clean-Up

Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling Procedures

Use good industrial hygiene practices in handling this material. Do not get this material in eyes, on skin, or on clothing. Avoid breathing vapors or mists of this product.

Storage Procedures

Keep out of the reach of children. Store in a tightly closed container in a cool, dry and dark place away from incompatible materials.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Sodium Bisulfite: 5 mg/m³ (ACGIH TLV-TWA)

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with and eyewash station and a safety shower.

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Personal Protective Equipment

Eyes/Face

Wear chemical goggles and face shield.

Skin

Gloves and apron of impervious material.

Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

9. Physical & Chemical Properties

<i>State</i>	Liquid
<i>Appearance</i>	Clear to slight yellow
<i>Odor</i>	Pungent
<i>pH</i>	3 – 5
<i>Freezing Point</i>	6°C (43°F)
<i>Boiling Point</i>	104°C (219°F)
<i>Specific Gravity, 20°C</i>	1.33
<i>Solubility (Water)</i>	100%
<i>Flash Point</i>	Not flammable
<i>Upper/Lower Flammability</i>	Not flammable
<i>Auto Ignition Temperature</i>	Not flammable
<i>Decomposition Temperature</i>	Not available

10. Chemical Stability & Reactivity Information

Reactivity

Stable under normal temperature and pressure.

Conditions to Avoid

Do not mix with other chemicals.

Incompatible Materials

Strong oxidizing agents and acids.

Hazardous Decomposition Products

Sulfur dioxide.

Hazardous Polymerization

Will not occur.

11. Toxicological Information

Component Analysis – LD50

Sodium Bisulfite: Oral (LD50) 1,420 mg/kg [Rat]

Inhalation Effects

May cause respiratory tract irritation. Sulfur dioxide given off by this product has been shown to cause breathing difficulties in asthmatics.

Irritation to skin

Causes chemical burns.

Irritation to eyes

Causes chemical burns. May cause blindness.

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Carcinogenicity/mutagenicity

This product is classified A4 by ACGIH, not classifiable as a human carcinogen.

12. Ecological Information

Aquatic toxicity

Sodium Bisulfite: Daphnia magna – 119 ppm (EC50 – 48hr)
Gambusia affinis – 240 ppm (LC50 – 96hr)

Environmental Effects

Harmful to aquatic life.

Persistence/Degradability

No data available.

Bioaccumulation

No data available.

13. Disposal Considerations

Disposal Instructions

Waste material must be disposed of in accordance with federal, state, provincial, and local regulations. Empty containers should be recycled or disposed of through an approved waste management facility. Slack Chemical Co., Inc. recommends disposal of dry residues in an approved hazardous waste management facility or by neutralizing and disposing of according to local or permitted regulations.

14. Transport Information

Shipping Description

ID Number: UN 2693

Proper Shipping Name: Bisulfites, aqueous solutions, n.o.s. (Sodium Bisulfite)

Hazard Class: Class 8 – Corrosive

Packing Group: III

15. Regulatory Information

US Federal Regulations

OSHA 29 CFR 1910.1200 Hazardous Chemical

Listed.

SARA 302

Listed.

SARA 311

Listed.

TSCA Inventory

Listed.

Canada DSL

Listed.

WHMIS Classification

Class D2A, Class E.

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16. Other Information

HMIS RATINGS

Health	3
Flammability	0
Reactivity	0
Pers. Prot.	X

NFPA RATINGS

Health	3
Flammability	0
Reactivity	0
Special Hazards	COR

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