

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	Sodium metabisulfite
CAS number	7681-57-4
Synonyms	Disodium disulfite, disodium metabisulfite, disodium pyrosulfite, sodium metabisulfite, sodium pyrosulfite, disulfurous acid, disodium salt.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Food preservative, antioxidant, in pharmaceuticals.

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity - oral	Category 4
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Harmful if swallowed. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Precautionary statements:

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Disposal

Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Sodium Metabisulfite	-	7681-57-4	100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
In case of eye contact	Flush eye with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.
If swallowed	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Cause serious eye irritation. May cause sensitization by inhalation and skin contact. May cause allergic contact dermatitis. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause irritation of respiratory tract. Coughing and wheezing. Inhalation of high concentrations of vapors may cause central nervous system depression. Irritating to mouth, throat and stomach. Seizures. Central nervous system depression. May cause cardiovascular effects.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	The product is not flammable. If it is involved in a fire, use dry chemical, dry sand or carbon dioxide.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

If it is involved in a fire the following can be released: Sulfur oxides, sodium oxides, sodium sulfate.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-container breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point	No information available
Autoignition Temperature	No information available
Explosion limits	

Upper	No information available
Lower	No information available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
NFPA	
No information available.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Do not let this chemical enter the environment.

6.3 Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Hygiene measures

Avoid contact with skin, eye and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Sensitive to light. Store in light-resistant containers. Air sensitive. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatibilities

Oxidizing agents, strong acids, strong bases, sodium nitrite, moisture.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available.

US. ACGIH Threshold Limit Values

Component	Type	Value
Sodium Metabisulfite	TWA	5 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Sodium Metabisulfite	TWA	5 mg/m ³

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Eye/face protection

Goggles or safety glasses with side-shields.

Skin and body protection

Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection

Effective dust mask or wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation, and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	White to yellowish
Odor	Sulfur dioxide odor.
Odor Threshold	No information available.
pH	4.3 (1%)
Melting Point/Range	No information available.
Boiling Point/Range	No information available.
Evaporation Rate	No information available.
Flammability (solid)	No information available.
Flammability or explosive limit	
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	1.44
Solubility	No information available
Partition coefficient; n-octanol/water	-3.7
Autoignition Temp	No information available
Decomposition Temp	>150 °C / 302 °F
Viscosity	No information available
Molecular Formula	Na ₂ S ₂ O ₅
Molecular Weight	190.11 g/mol
VOC Content(%)	No information available
Oxidizing properties	No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with moisture or water will release sulfur dioxide gas.

10.2 Chemical stability

Sensitive to air. Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Heat. Exposure to air. Exposure to moist air. Exposure to moisture. It is slowly oxidized to sodium sulfate upon exposure to air and moisture. Exposure to light. Incompatible materials.

10.5 Incompatible materials

Oxidizing agents. Strong acids. Strong bases. Sodium nitrite. Moisture.

10.6 Hazardous decomposition products

Sodium oxides. Sulfur oxides. Sodium sulfate. Decomposes on heating with ultimate formation of sodium sulfate.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Metabisulfite	1310 mg/kg (rat)	>2000 mg/kg	-

Skin corrosion/irritation

May cause skin irritation. Causes serious eye irritation. Eye contact may result in redness or pain.

Serious eye damage/eye irritation

Causes serious eye irritation. Eye contact may result in redness or pain.

Respiratory or skin sensitization

May cause irritation of the respiratory tract and mucous membranes irritation. Symptoms may include coughing and wheezing.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium Metabisulfite	7681-57-4	Not listed	Not listed	Not listed	Not listed	Not listed

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

No information available

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
Sodium metabisulfite		Desmosdesmus subspicatus	48 mg/L 72 h
		Desmosdesmus subspicatus	40 mg/L 96 h
		Lepomis macrochirus	32 mg/L 96 h
		Pseudomonas putida	56 mg/L 17 h

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Not listed.

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed

US. New Jersey Worker and Community Right-to-Know Act

Listed

US. Pennsylvania Worker and Community Right-to-Know Law

Listed

California Proposition 65

Not listed

SECTION 16: Other information

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SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.