



SAFETY DATA SHEET
According to 29 CFR 1910.1200

SODIUM METABISULFITE

Date of issue: July 01, 2014 Revision date: September 01, 2023 Version: 3

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form Substance.
Substance name Sodium Metabisulfite
CAS No. 7681-57-4
Formula $\text{Na}_2\text{S}_2\text{O}_5$
Synonyms Sodium Pyrosulfite, Disodium Pyrosulfite, Disodium Salt, Sodium Disulphite.

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

Use of the substance/mixture Water dechlorination agent, lab reagent and other chemical process applications.

1.3 Details of the supplier of the safety data sheet

Química Pima, S.A. de C.V.
Del Cobre 20, Parque Industrial Hermosillo.
Hermosillo, Sonora, México. C.P. 83297
Tel. 011 (662) 251-0010 ventas@quimicapima.com

1.4 Emergency telephone number

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

SECTION 2.- HAZARD IDENTIFICATION

2.1. GHS-US classification

Acute Toxicity, Oral (Cat. 4) H302
Acute Toxicity, Dermal (Cat. 5) H313
Serious Eye Irritant (Cat. 2A) H319

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Irritant

Signal word (GHS-US):

Warning

Hazard statement (GHS-US):

H302 Harmful if swallowed.
H313 May be harmful In contact with skin
H319 Causes serious eye irritation.

Precautionary statements (GHS-US):

P264 Wash your hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.



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Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Contact with acids or water liberates toxic sulfur dioxide gas.

2.3. Other hazards

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance

Substance type Mono-constituent.

Name	Product identifier	%	GHS-US classification
Sodium Metabisulfite	(CAS No.) 7681-57-4	97.0	Ac. Tox., Oral 4, H302 Ac. Tox, Der. 5, H313 Eye Irrit. 2A, H319

Full text of H-phrases: see sector 16.

3.2 Mixture Not applicable

SECTION 4.- FIRST AID MEASURE

4.1. Description of first air measure

First-aid measures general

If medical advice is needed, have product container or label at hand.

First-aid measures after eye contact

Immediately rinse with water for a prolonged period while holding the eyelids wide open. Obtain medical attention if irritation develops or persists.

First-aid measures after skin contact

Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists.

First-aid measures after inhalation

If inhaled, remove from source of exposure to dusts to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists. Persons who have inhaled decomposition gases (e.g. in a fire) should obtain immediate medical attention.

First-aid measures after ingestion

Give large quantities of water or milk immediately. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

Sore throat, shortness of breath coughing, and congestion.

Symptoms/injuries after skin contact

Irritation, itching, dermatitis.

Symptoms/injuries after eye contact

Irritation of the eyes and mucous membranes.

Symptoms/injuries after ingestion

Irritation of mucous membranes.

4.3. Indications of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote, contact Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.



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SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Dry powder is recommended.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazard arising from the substance or mixture

Fire hazard Not flammable or combustible.

Explosion hazard Product is not explosive.

Reactivity Stable at ambient temperature and under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions Do not release runoff from fire control methods to sewers or waterways.

Protective during firefighting Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode

Other information May release hazardous gas with fire or water.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment Wear suitable protective clothing, gloves and eye/face protection. Wear tight fitting goggles in dusty areas to reduce dust exposure to the eyes. If skin irritation occurs, wear long sleeves.

Emergency procedures Collect as any solid. Ventilate area.

6.1.2. For emergency responders

Protective equipment Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures If possible, stop flow of product. Contain and collect as any solid. Ventilate area. Large spills should be handled according to a predetermined plan. For large spills, dike far ahead of contaminated runoff for later disposal. Spills can be neutralized with an alkaline material such as caustic soda. Leaks may be located by spraying the area with ammonium hydroxide solution which forms a white fume in the presence of sulfur dioxide.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up.

Method for containment If contaminated with other materials, contain and collect as any solid in suitable containers. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Prevent large quantities from contacting vegetation.

Methods for cleaning up Recover the product by vacuuming, shoveling or sweeping and place in appropriate container to be disposed at an appropriate disposal facility according to current applicable laws and regulations and product characteristics at the time of disposal. Provide adequate ventilation. Avoid generation of dust during clean-up of spills. If uncontaminated, recover and reuse product. Practice good housekeeping – spillage can be slippery on smooth surface either wet or dry.



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6.4 Reference to other sections

No additional information available.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling

When heated, material emits irritating fumes. Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Do not breathe dust of vapor. Emergency eye wash fountains and a safety shower should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store tightly closed in a dry, cool and well-ventilated place. Store in areas, away from heat and moisture and protect from physical damage.

Incompatible products

Acids and oxidizers.

Incompatible materials

Moisture.

7.3 Specific end use(s)

Water dechlorination agent, lab reagent and other chemical process applications

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	ACGIH TWA	OSHA PEL	NIOSH IDLH
Sodium Metabisulfite 7681-57-4	5 mg/m ³	Not available.	Not available.

8.2. Exposure controls

Personal protective equipment

Gloves. Safety glasses. Protective clothing.

Hand protection

Impermeable protective gloves.

Eye protection

Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area of monopotassium phosphate.

Skin and body protection

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wear suitable protective clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Other information

Ensure adequate ventilation, especially in confined areas.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid crystal.	Appearance:	Granular solid.
Odor:	Not available.	Color:	White.



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Molecular mass	190.11 g/mol	
Odor threshold	Pungent SO ₂ odor.	
pH	4.0 – 4.5	10% Soln.
Relative evaporation rate (butyl acetate=1)	Normal	
Melting/Freezing point	150°C (302°F)	
Boiling point	No data available.	
Flash point	Not flammable.	
Self ignition temperature	Not flammable.	
Decomposition temperature	No data available.	
Flammability (solid, gas)	Not flammable.	
Vapor pressure	No data available.	
Relative vapor density at 20°C	No data available.	
Relative density	1.5	
Solubility	Soluble in water: 45% @ 20°C	
Log Pow	No data available.	
Log Kow	No data available.	
Viscosity, kinematic	No data available.	
Viscosity, dynamic	No data available.	
Explosive properties	Not explosive.	
Oxidizing properties	No data available.	
Explosive limits	No data available.	

9.2 Other information

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	Stable at ambient temperature and under normal conditions of use.
10.2 Chemical stability	Stable at standard temperature and pressure.
10.3 Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4 Conditions to avoid	Avoid excessive heat, open flame and moisture. In the presence of water, or acid, Sodium Metabisulfite (and solutions) may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide. Acute poisoning from sulfur dioxide is rare because the gas is easily detected. It is so irritating that contact cannot be tolerated. Symptoms include coughing, hoarseness, sneezing, tearing, and breathing difficulty. However, workers who cannot escape high accidental exposure may suffer severe pulmonary damage which can be fatal. Contact with
10.5 Incompatible materials	



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powdered potassium, sodium metals, alkali, and oxidizing agents produce violent reactions. Reacts with water and steam to form corrosive sulfurous acid. Reacts with chlorates to form unstable chlorine dioxide.

10.6 Hazardous decomposition products May release hazardous sulfur dioxide gas.

SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects

Chronic effects
Prolonged or repeated exposure may cause dermatitis, and sensitization reactions. Exposure to asthmatic, atopic and sulfite sensitive individuals can result in expiratory volume. Decomposition of sodium metabisulfite and solutions may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide, which may cause permanent pulmonary impairments from acute and chronic exposure. The Immediately Dangerous to Life or Health (IDLH) level for SO₂ is 100 ppm.

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
Sodium Metabisulfite	1131 mg/kg (rat)	> 2000 mg/kg (rat)	-

Skin corrosion/irritation Contact with skin may result in irritation. Sulfite sensitive individuals may show signs of allergic contact dermatitis from repeated or prolonged skin exposure.

Serious eye damage/irritation Exposure to dust may cause severe eye irritation with possible permanent damage.

Respiratory or skin sensitization Inhalation of dust may result in respiratory tract irritation. May cause asthma-like symptoms in sensitive individuals. Swallowing can result in nausea, vomiting, diarrhea and abdominal pain. May also cause allergic reactions in sulfite sensitive individuals.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

Specific target toxicity (single exposure) Not classified.

Specific target toxicity (repeat exposure) Not classified.

Aspiration hazard Not classified.

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Sodium metabisulfite	
Ecotoxicity	Sodium Metabisulfite is a non-hazardous solid commonly used as a waste water dechlorination agent. High concentrations will contribute to elevated chemical oxygen demand in aquatic environments. 96 hour LC ₅₀ (fish): 150-220 mg/L. 48 hour IC ₅₀ (algae): 48 mg/L. 24 hour EC ₅₀ (water flea): 89 mg/L.

12.2 Persistence and degradability

Sodium metabisulfite	
Persistence and degradability	Rapid biological decomposition.



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12.3 Bioaccumulative potential

Sodium metabisulfite	
Bioaccumulative potential	Not established.

12.4 Mobility in soil Slight.

12.5 Other adverse effects

Other information Avoid release to the environment.

SECTION 13.- DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations	Waste determinations typically consider Sodium Metabisulfite contaminated materials to be non-hazardous. Keep out of sewers and waterways. Place in an appropriate container and dispose of the contaminated material at a licensed site.
Ecology-waste materials	Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14.- TRANSPORT INFORMATION

14.1. UN number	Sodium Metabisulfite, non-regulated material.
14.2. UN proper shipping name	Not applicable.
14.3. Additional information	
Other information	No supplementary information available.
Overland transport	No additional information available.
Transport by sea	No additional information available.
Air transport	No additional information available.

SECTION 15.- REGULATORY INFORMATION

15.1 US Federal regulations

Sodium metabisulfite	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA regulations: RCRA Hazardous Waste Classification (40 CFR 261): Not listed. CERCLA Hazardous Substance (40 CFR 302.4): Not listed. CERCLA Reportable Quantity (RQ): NA. SARA Title III: Section 302: Not listed. Section 313: Not listed. FIFRA: Not regulated.	

15.2 International regulations

CANADA

Sodium metabisulfite	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	D2B

E U - Regulations No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified.

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified.



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15.2.2 National regulations

Sodium metabisulfite
Inventory listed chemical; PAIR Reportable Not listed in Toxic Substances Chemical Index

15.3 US State regulations

California Prop 65: Not Listed. IARC, NTP and OSHA Carcinogenicity: Not Listed.

SECTION 16.- OTHER INFORMATION

NFPA	NFPA health hazard	2	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
HMIS III	Health	2	Flammability	0	Physical	0	Personal Protection	E

C Safety glasses, gloves and dust respirator.



Other information: None

Made for: Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.

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September 01, 2023. 3rd rev. Syntax and spelling improvements and corrections were made.

IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

End of Safety Data Sheet