



SAFETY DATA SHEET

According to 29 CFR 1910.1200

SODIUM BISULFITE SOLUTION

Date of issue: September 01, 2023 Revision date: - Version: 1

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

1.1 Product identifier

Product form Liquid
Substance name Sodium bisulfite solution
CAS No. 7631-90-5
Formula NaHSO₃
Synonyms Sodium bisulfite, sodium hydrogen sulfite

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

Use of the substance/mixture Fertilizers

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 / (662) 251-0316
ventas@qpima.com
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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

Skin Corrosion/Irritation	1C	H314
Serious Eye Damage/Eye Irritation	1	H318

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal Word (GHS-US):

Danger

Hazard statement (GHS-US):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary statements (GHS-US):

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash your hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.



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P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of the contents/container in accordance with federal, state, and local laws.
Exposure may exacerbate pre-existing eye, skin, or respiratory conditions.
Not applicable

2.3 Other hazards

2.4 Unknown acute toxicity (GHS-US)

SECCIÓN 3.- COMPOSITION / INFORMATION OF INGREDIENTS

3.1 Substance

Name	Product identifier	%
Sodium bisulfite	(CAS No.) 7631-90-5	30 - 44

3.2 Mixture

Not applicable

SECCIÓN 4.- FIRST AID MEASURE

4.1 Description of first aid measure

First-aid measures general

Check vital signs. Unconscious: keep airways clear and provide breathing assistance. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform CPR. Conscious victim with breathing difficulty: semi-upright position. Victim in shock: lying on back with legs slightly elevated. Vomiting: prevent choking or aspiration. Avoid cooling by covering the victim (without heating). Continue monitoring the victim. Provide psychological support. Keep the victim calm, and avoid physical strain. Depending on the victim's condition: seek medical attention/hospital. Never give anything by mouth to an unconscious person. If feeling unwell, seek medical attention (if possible, show the label).

First-aid measures after eye contact

Flush immediately with water for an extended period while keeping eyelids open. Seek medical attention if irritation persists.

First-aid measures after skin contact

Remove contaminated clothing. Wash the affected area with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

First-aid measures after inhalation

When symptoms occur: move to fresh air and ventilate the suspected area. Seek medical attention if difficulty breathing persists.

First-aid measures after ingestion

Rinse mouth. Do not induce vomiting. Seek medical attention.

4.2 Most important

Symptoms/injuries after inhalation

Inhalation can cause severe immediate irritation that rapidly progresses to chemical burns.

Symptoms/injuries after skin contact

Corrosive. Causes burns.

Symptoms/injuries after eye contact

Causes severe eye damage.

Symptoms/injuries after ingestión

Ingestion is likely to be harmful or have adverse effects. It can cause burns or irritation to the linings of the mouth, throat, and gastrointestinal tract.

Chronic symptoms

No data available

4.3 Indications of any immediate medical attention and special treatment needed

No data available

SECCIÓN 5.- FIREFIGHTING MEASURES



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5.1 Extinguishing media

Suitable extinguishing media Use appropriate extinguishing media for the surrounding fire.

Unsuitable extinguishing media Do not use a heavy water stream. Using heavy water streams may spread the fire.

5.2 Special hazard arising from the substance or mixture

Fire hazard Non-flammable. Stable at room temperature and under normal conditions of use.

Explosion hazard Stable at room temperature and under normal conditions of use.

Reactivity No data available.

5.3 Advice for firefighters

Precautionary measures fire Toxic fumes are released, including sulfur oxides and sodium oxides.

Firefighting instructions If the fire involves tank loads or trailers, control the fire from a maximum distance or use automatic hose holders for monitor nozzles. Do not introduce water into the containers. Cool the containers with flooding amounts of water only after the fire has been extinguished. Immediately withdraw if the sound of safety discharge devices increases or if the tank starts to discolor. ALWAYS stay away from tank ends. If a tank truck or car is involved in a fire, ISOLATE it and consider evacuation for a radius of 0.8 km (0.5 miles).

Protection during firefighting Use a self-contained breathing apparatus. Structural firefighter protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. In major spills, use chemical protective clothing specifically recommended by the manufacturer. This may provide little or no thermal protection.

SECCIÓN 6.- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment Use the recommended protective equipment in section 8.

Emergency procedures Avoid ignition sources. Evacuate personnel to a ventilated area.

Measures in case of dust release Ventilate immediately, especially in low-lying areas where vapors may accumulate.

6.1.2 For emergency responders

Handle according to good industrial hygiene and safety practices. DO NOT breathe (dust, vapor, mist, gas). Avoid all contact with skin, eyes, and clothing. Equip the cleaning crew with proper protection. Use appropriate personal protective equipment (PPE). Ventilate the area. Consider the information and recommendations in sections 5 and 7. Use the recommended protective equipment in section 8.

6.2 Environmental precautions

Keep away from water supply and drains. If necessary, leaks should be reported to the appropriate agencies.

6.3 Methods and material for containment and cleaning up

Method for containment Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Method for cleaning up Clean up spills immediately and dispose of waste safely. Absorb and/or contain the spill with inert material, then place it in an appropriate container. Large spill: vacuum up the product. Contact the relevant authorities after a spill.

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection

SECTION 7.- HANDLING AND STORAGE

7.1 Precautions for safe handling



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Precautions for safe handling

Prohibited to eat, drink, or smoke during handling. Avoid contact with eyes, skin, and clothing. Wash arms, hands, and nails after handling this product. The use of gloves is recommended. Provide access to emergency showers and eye wash stations. Avoid inhalation of the product. Keep the container closed. Use with adequate ventilation. Handle containers with care.

Hygiene measures

Wash hands, forearms, and face thoroughly after handling chemicals, before eating, smoking, and using the restroom, and at the end of the work period. Use appropriate techniques to remove contaminated clothing. Wash contaminated clothing before reuse. Ensure that eye wash stations and safety showers are located near workstations. Handle according to good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a dry, cool, and well-ventilated area. Keep the container tightly closed when not in use. Keep/Store away from extremely high or low temperatures, ignition sources, direct sunlight, and incompatible materials.

Incompatible products

Strong acids. Strong bases. Strong oxidizers.

Heat-ignition

Keep/Store away from extremely high or low temperatures, ignition sources, direct sunlight, and incompatible materials.

Storage area

Store in a dry, cool, and well-ventilated area. Keep/Store away from extremely high or low temperatures, ignition sources, direct sunlight, and incompatible materials.

Special rules on packaging

Store in a tightly sealed, dry, clean, and properly labeled container. Comply with applicable regulatory requirements. Secure fragile packaging in sturdy containers.

Packaging materials

No data available

7.3 Specific end use(s)

No additional information is available

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
SODIUM BISULFITE 7631-90-5	5 mg/m ³	No data available	5 mg/m ³

8.2 Exposure controls

Appropriate engineering controls

Local exhaust ventilation should be applied where there is an incidence of emissions at the point of origin or dispersion of regulated contaminants in the work area. Ventilation control for the contaminant as close as possible to its point of generation is the most economical and safest method to minimize personnel exposure to airborne contaminants. The most effective measures are to place all processes in a total containment enclosure and mechanize handling procedures to avoid all personal contact.

Personal protective equipment

splash-resistant chemical goggles, full-face protection, protective gloves, protective clothing, boots, laboratory coat, apron, raincoat, pants, coveralls, NIOSH-approved air-purifying or supplied-air respirator

Material for protective clothing

Tychem.



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Hand protection

Use appropriate protective gloves to avoid skin exposure. Wear suitable protective clothing to minimize skin contact.

Eye protection

Use splash-resistant chemical goggles and full-face protection. Maintain sources for eye wash stations and quick wash showers in the work area.

Skin and body protection

Wear impermeable protective clothing, including boots, gloves, laboratory coat, apron, raincoat, pants, or coveralls to prevent skin contact. Evaluate the resistance under your conditions of use and carefully maintain the clothing. Use protective clothing to minimize skin contact. When there is a possibility of contact with wet material, use Tychem or a similar chemical protection suit. When there is a possibility of contact with dry material, use disposable coveralls suitable for dust exposure, such as Tyvek. Always tuck pants into boots. Wash and thoroughly dry contaminated garments before reuse. Discard contaminated leather materials. Before handling this product, appropriate footwear should be selected, along with any additional skin protection measures based on the task being performed and associated risks, with the approval of a specialist.

Respiratory protection

Use a NIOSH-approved air-purifying or supplied air respirator where concentrations of vapor or mist in the air are expected to exceed exposure limits.

Environmental exposure controls

Avoid release to the environment.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Odor	Pungent, sulfurous
Color	Pale to dark pink
Molecular mass	104.06 g/mol
Odor threshold	Not available
pH	3.8 – 5.2
pH solution	No data available
Relative evaporation rate (butyl acetate = 1)	No data available
Melting/Freezing point	6 °C (42.8 °F)
Boiling point	104 °C (219.2 °F)
Flash point	No data available
Self-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	10.4 kPa (78 mmHg)
Relative vapor density at 20 °C	No data available
Relative density	1.33 (20 °C)
Solubility	100% in water
Log Kow/Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available



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Oxidizing properties

No data available

Explosive limits

No data available

9.2 Other information

No additional information is available

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	This material is stable under normal handling and storage conditions.
10.2 Chemical stability	This material is stable under normal handling and storage conditions.
10.3 Possibility of hazardous reactions	This material is stable under normal handling and storage conditions.
10.4 Conditions to avoid	Keep it away from high temperatures, sunlight, and ignition sources. Keep it away from incompatibles.
10.5 Incompatible materials	Strong acids, strong bases, strong oxidizers.
10.6 Hazardous decomposition products	Sulfurous oxides and sodium oxides.

SECTION 11.- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure	Skin and eyes contact, inhalation, and ingestion.
Acute toxicity	It can cause burns or irritation to the linings of the mouth, throat, and gastrointestinal tract.
Skin corrosion/irritation	It causes burns to the skin.
Serious eye damage/irritation	It causes severe eye burns.
Respiratory or skin sensitization	Causes severe burns to the skin.
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target toxicity (single exposure)	No data available.
Specific target toxicity (repeat exposure)	No data available
Aspiration hazard	It can be harmful if inhaled. It can be harmful if swallowed.

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
Sodium bisulfite	1420 mg/kg (rat)	> 2000 mg/kg	-

SECTION 12.- ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – General	No data available
Ecology – Air	No data available
Ecology – Water	This material has demonstrated toxicity to aquatic organisms: EC ₅₀ <i>D. magna</i> (119 mg/l, 48 h)

12.2 Persistence and degradability

No data available



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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Other information

SECCIÓN 13.- INFORMACIÓN RELATIVA A LA ELIMINACIÓN DE LOS PRODUCTOS

13.1 Waste treatment methods

Waste treatment methods

Dispose of surplus and non-recyclable products through a licensed waste disposal contractor. Waste should not be disposed of untreated into the sewer unless it complies with the requirements of all competent authorities. Avoid dispersal of spilled material and prevent contact with soil, waterways, drains, and sewers.

Waste disposal recommendations

Waste generation should be avoided or minimized whenever possible. Dispose of product residues and containers with all possible precautions. Care should be taken when handling empty containers that have not been cleaned or rinsed. Empty containers or liners may retain product residues. Dispose of the waste material following local, regional, national, and international regulations.

SECTION 14.- TRANSPORT INFORMATION

14.1 UN Number

2693

14.2 UN proper shipping name

BISULPHITES, AQUEOUS SOLUTION, N.O.S.

14.3 Class of hazards in transportation

8

14.4 Packaging group

III

14.3 Additional information



Other information

Special precautions for user: 274

Overland transport

No additional information is available.

Transport by sea

No additional information is available.

Air transport

No additional information is available.

SECTION 15.- REGULATORY INFORMATION

International inventories

TSCA

TSCA – Toxic Substances Control Act Inventory Section 8(b).

DSL/NDSL - Domestic Substance List/Non-Domestic Substance List.

US Federal Regulations: Not available

SARA 311/312 Categories.



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Acute Health Hazard	Yes	Chronic Health Hazard	No	Fire Hazard	No
Sudden Hazardous Pressure Release	No	Reactive Hazard	No		

Clean Water Act. No data available

CERCLA. No data available

Applicable national regulations. No data available

SECTION 16.- OTHER INFORMATION

NFPA	NFPA health Hazard	2	NFPA fire Hazard	0	NFPA instability Hazard	1	NFPA Special hazard	-
HMIS III	Health	2	Flammability	0	Physical	1	Personal protection	X

Consult with the supervisor for handling instructions for this substance.

X



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End of Safety Data Sheet