

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: SODIUM BISULPHITE SOLUTION 23%

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

Identified uses: Industrial use.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (SI 2019 No. 720):

Physical hazards: Not Classified.
Health hazards: Acute Tox. 4 - H302
Environmental hazards: Not Classified.

Label elements:

Hazard pictograms:



Signal word: Warning.

Hazard statements: H302 Harmful if swallowed.

Precautionary statements: P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330 Rinse mouth.

Supplemental label information: EUH031 Contact with acids liberates toxic gas.

[cont...]

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

SODIUM BISULPHITE%	>=30 - <40
CAS number:	7631-90-5
EC number:	231-548-0
Classification:	Acute Tox. 4 - H302

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. For breathing difficulties, oxygen may be necessary.
Ingestion:	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact:	Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed:

Inhalation:	Irritation of nose, throat and airway.
Ingestion:	Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor:	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Extinguish with the following media: Foam. Water.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:

Specific hazards: Contact with acid liberates toxic gas. Thermal decomposition or combustion products may include the following substances: Sulphur dioxide.

Advice for firefighters:

Protective actions during firefighting: Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters: Use protective equipment appropriate for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Eliminate all ignition sources.

Environmental precautions: Contain spillage with sand, earth or other suitable non-combustible material. Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up:

Methods for cleaning up: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Avoid contamination of ponds or watercourses with washing down water.

Reference to other sections: For personal protection, see Section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Usage precautions: Avoid inhalation of vapours/spray and contact with skin and eyes. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Provide adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Do not eat, drink or smoke when using this product. Keep container tightly sealed when not in use.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry and cool place. Store at temperatures between 10°C and 20°C. Ideally in a warehouse. Do not store in direct sunlight. Do not keep part full containers. Rapid deterioration due to oxidation will occur. Store away from the following materials: Acids. Oxidising materials. Keep away from products that could release acids.

Specific end use(s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits:

SODIUM BISULPHITE%

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

WEL = Workplace Exposure Limit.

Exposure controls:

Protective equipment:



Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Eye/face protection: Wear chemical splash goggles. Personal protective equipment that provides appropriate eye and face protection should be worn.

Hand protection: It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Wear protective gloves made of the following material: Polyvinyl chloride (PVC). Nitrile rubber. Butyl rubber. Viton rubber (fluoro rubber). Chloroprene rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Hygiene measures: Good personal hygiene procedures should be implemented. Wash contaminated skin thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Seek advice from supervisor on the company's respiratory protection standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid.
Colour:	Not available.
Odour:	Pungent.
pH:	pH (concentrated solution): 3.5 - 5.0
Melting point:	Not relevant.
Initial boiling point and range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not relevant.
Upper/lower flammability or explosive limits: Not available.	
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	1.10 - 1.35
Solubility(ies):	Soluble in water.
Partition coefficient:	Not available.
Auto-ignition temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not relevant.
Oxidising properties:	Not available.

10. STABILITY AND REACTIVITY

Reactivity: Contact with acid liberates toxic gas.

Chemical stability:

Stability: Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions: Under normal conditions of storage and use, no hazardous reactions will occur. Contact with acids liberates toxic gas. The following materials may react with the product: Oxidising agents. Sulphides. Nitrates. Nitrides.

Conditions to avoid: Avoid heat, flames and other sources of ignition. Avoid humidity.

Incompatible materials:

Materials to avoid: Strong oxidising agents. Acids. Nitrates. Nitrides.

Hazardous decomposition products:

Thermal decomposition or combustion products may include the following substances:

Toxic vapours. Sulphur dioxide. Sodium sulphur. Sodium oxide. Sulphurous gases (SO_x).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity – oral:

ATE oral (mg/kg): 500.0

Skin corrosion/irritation:

Skin corrosion/irritation: Under normal conditions no skin irritation is expected.

Serious eye damage/irritation:

Serious eye damage/irritation: Under normal conditions no eye irritation is expected.

Respiratory sensitisation:

Respiratory sensitisation: Based on available data the classification criteria are not met.

Skin sensitisation:

Skin sensitisation: Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Genotoxicity - in vitro: Based on available data the classification criteria are not met.

Genotoxicity - in vivo: Based on available data the classification criteria are not met.

Carcinogenicity:

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity:

Reproductive toxicity – fertility: Not classified. Based on available data the classification criteria are not met.

Reproductive toxicity – development: Not classified. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

STOT - single exposure: Not classified. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure:

STOT - repeated exposure: Not classified. Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Inhalation: May cause respiratory system irritation.

Ingestion: May cause discomfort if swallowed.

Skin contact: Liquid may irritate skin.

Eye contact: May cause eye irritation.

12. ECOLOGICAL INFORMATION

Toxicity:

Acute toxicity – fish: LC₅₀, 96 hours: 150 - 200 mg/l, Fish

Acute toxicity – aquatic invertebrates: EC₅₀, 48 hours: 89 mg/l, Daphnia magna

Acute toxicity - aquatic plants: EC₅₀, 72 hours: 48 mg/l, Algae

Acute toxicity – microorganisms: EC₅₀, 17 hours: 56 mg/l, Bacteria

Persistence and degradability: No data available.

Bioaccumulative potential: No information available.

Partition coefficient: Not available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: Not available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal methods: Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Thoroughly emptied and clean packaging may be recycled. Uncleaned empty packages should be disposed of in the same manner as the contents.

Catalogues: EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

[cont...]

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14. TRANSPORT INFORMATION

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transport hazard class(es): No transport warning sign required.

Packing group: Not applicable.

Environmental hazards:

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU legislation: Regulation (EC) No 1272/2008 CLP.
Regulation (EC) No 1907/2006 REACH.

Chemical safety assessment: A chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Hazard statements in full: H302 Harmful if swallowed.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.