

Safety Data Sheet SODIUM METABISULFITE

SDS no. U5SDR31S • Version 1.0 • Date of issue: 2024-07-09

SECTION 1: Identification

GHS Product identifier

Product name SODIUM METABISULFITE

Other means of identification

Name	Product Code
Sodium Metabisulphite	SL013
Sodium Metabisulphite	SP013
Sodium Metabisulphite	ST013
Sodium Metabisulphite	SMS2

Recommended use of the chemical and restrictions on use

In foods, as preservative, analytical reagent, laboratory reagent, bleaching agent, reducing agent in dyeing and pharmaceutical aid (antioxidant).

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, oral, Cat. 4
- Serious eye damage/eye irritation, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H302

Harmful if swallowed

H318

Causes serious eye damage

Precautionary statement(s)

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

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

P301+P312

IF SWALLOWED: Call a POISON CENTER/doctor/physician 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.

P310

Immediately call a POISON CENTER/doctor/physician

P330

Rinse mouth.

P501

Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 190.1

Components

Component	CAS no.	Concentration
Sodium metabisulfite (EC no.: 231-673-0; Index no.: 016-063-00-2)	7681-57-4	100 % (weight)
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Serious eye damage/eye irritation, Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.

In case of skin contact

Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. Seek medical advice. If persistent irritation occurs, obtain medical attention.

In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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If swallowed Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂, water spray or foam.

Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire (sulfur oxides).

Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Evacuate the area of all non-essential personnel.

Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid generation or accumulation of dusts. Avoid contact with eyes, skin and clothing. Wash hands and face thoroughly after working with material. Use in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

Avoid contact with water.

Conditions for safe storage, including any incompatibilities

Keep containers closed at all times. Store in a cool, dry place. Store in well ventilated area. Store away from heat. Store away from acids.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	White to yellow-white crystals, granules or powder.
Color	No data available.
Odor	Slight odour of sulfur dioxide (SO ₂).
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	Non-combustible material but toxic sulfur dioxide may be liberated if involved in a fire.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	~150 °C (decomposing temp.)
Oxidizing properties	No data available.
pH	3.5 - 5 (50 g/L, H ₂ O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble (640 g/L @ 20 °C) Solubility in Organic Solvents: Freely soluble in glycerol. Slightly soluble in alcohol.
Partition coefficient n-octanol/water (log value)	log P(o/w): -3.7 (25 °C)
Vapor pressure	No data available.
Evaporation rate	No data available.

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Density and/or relative density
Relative vapor density
Particle characteristics

Specific Gravity: 1.48
No data available.
No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under normal use conditions. Gradually decomposes in the air to sulfate, generating sulfurous acid gas. Contact with moisture (water, air) releases toxic sulfur dioxide gas.

Possibility of hazardous reactions

Contact with acids liberates toxic gas. Toxic sulfur dioxide gas is released when in contact with water.

Hazardous Polymerization: Will not occur.

Conditions to avoid

Exposure to moisture. Exposure to air. Dust generation. Heat, flames, ignition sources and incompatibles.

Incompatible materials

Water, acids, alkalis, sodium nitrite, oxidisers and aluminium powder.

Hazardous decomposition products

Sulfurous acid gas and toxic sulfur dioxide gas.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50 (rat): 1540 mg/kg

Ingestion: Harmful if swallowed. May cause gastric irritation by the liberation of sulfurous acid. An asthmatic reaction may occur after ingestion.

Inhalation: Irritating to respiratory system. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Exposure can cause coughing, chest pains, difficulty in breathing, stomach pains, vomiting, diarrhea. May cause allergic reaction in sensitive individuals.

// ----- From the Suggestion report (18/07/2024, 1:29 PM) ----- //

The ATE (oral) of the mixture is: 500 mg/kg bw

Skin corrosion/irritation

Contact may cause irritation to the skin. Symptoms include redness, itching and pain.

Serious eye damage/irritation

Contact may cause irreversible eye damage. Risk of serious damage to eyes. Symptoms may include stinging, tearing, irritation, redness, pain, swelling, corneal damage and blindness.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available.

Carcinogenicity

Metabisulfites are evaluated as a group in the IARC Monographs as Group 3: Unclassifiable as to carcinogenicity to humans.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

Chronic Effects: Ingestion of large doses may result in nausea, vomiting, diarrhea, abdominal pains, circulatory disturbance and central nervous system depression. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. Human lethal dose is ~10 g.

SECTION 12: Ecological information

Toxicity

Biological Properties: Harmful effect on aquatic organisms. Toxic sulfur dioxide gas is released when in contact with water.

Known Harmful Effects on the Environment: Very toxic for aquatic organisms.

[8Y] Acute Toxicity - Daphnia: EC50 (Daphnia magna EC50): 102 mg/l - 4.2 d

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)