

Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

1.1 Product identifiers

Product name : SODIUM METABISULPHITE SOLUTION

1.2 Other means of identification

Sodium metabisulfite, sodium pyrosulphite, SMBS, sodium disulphite, birlasulf.

1.3 Recommended use of the product and restrictions on use

Antioxidant, food additive (preservative), reducing agent, whitening agent, chlorine neutraliser.

DO NOT COMBINE WITH OTHER CHEMICALS OR PRODUCTS UNLESS SPECIFIED BY MANUFACTURER.

1.4 Details of supplier of the safety data sheet

Company : AGent Sales & Services Pty Ltd

Street address : 38 May Holman Drive, Bassendean, Western Australia 6054

Telephone : (+61 8) 6270 4500 / 1300 833 844

Fax : (+61 8) 6270 4544

1.5 Emergency telephone number

Telephone : 1800 995 539

2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; DANGEROUS GOODS.

HAZARDOUS according to the criteria of the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals & Safe Work Australia; HAZARDOUS.

2.1 GHS Classification

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 5)

Serious eye irritation (Category 1)

GHS Label elements, including precautionary statements

Pictogram :



Signal word : DANGER

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns & eye damage.

H318 Causes serious eye damage.

Precautionary statement(s)

Prevention

P260	Do not breathe mist, spray, vapours.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection/ face protection.

Response

P301 + P330 + P331	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. 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.
P304 + P340	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
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 or doctor/ physician.
P363	Wash contaminated clothing before reuse.

Storage

P405	Store locked up
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Disposal

P501	Dispose of contents/ container to an approved waste disposal plant.
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2.2 Other hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Classification	Concentration (%)
Sodium Metabisulphite	7681-57-4	Acute Tox. (Oral) 4; Acute Tox. (Dermal) 5; Eye Dam.1; H302, H314, H318	20 - 50

For the full text of the H-Statements mentioned in this section, see Section 16

4. FIRST AID MEASURES

4.1 Description of First Aid measures

General advice

Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

In case of skin contact

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

In case of eye contact

Immediately rinse with large amounts of water for at least 15 minutes, keeping eyelids open. Protect uninjured eye. Remove clothing if contaminated and wash skin. Consult a physician immediately.

If swallowed

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

4.2 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. If you feel unwell, seek medical advice (show the label where possible).

4.3 First Aid facilities

Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Not combustible, however, if material is involved in a fire use: Use extinguishing media appropriate for surrounding fire. Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special hazards arising from the chemical

When heated to decomposition it emits toxic oxides of sulphur.

Special protective equipment and precautions for fire fighters

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition

5.3 Hazchem code

2X

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see Section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. If contamination of sewers or waterways has occurred, advise local emergency services. Observe all local and national regulations.

6.3 Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation. Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Avoid creating dust. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. After the product has been recovered, rinse the area and materials involved with water

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Do not store in aluminium containers. Do not store in galvanised containers. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Goods by the criteria of the ADG Code.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters - Occupational Exposure Limits

Chemical Name	Reference	TWA – Peak Limitation		STEL		Carcinogen Category	Notices
		ppm	mg/m ³	ppm	mg/m ³		
Sodium Metabisulphite (7681-57-4)	ASCC	-	5	-	-	-	-

As published in "Workplace Exposure Standards for Airborne Contaminants, December 2011" by SWA.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limits

None allocated for this product.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. If safe exposure levels are exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements

Personal protective equipment (PPE)

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.

Eye/face protection

Safety glasses or goggles, full faceshield (where determined necessary). See Australian Standards (AS/NZS 1336 & 1337).

Skin protection

Wear protective gloves (elbow length), protective clothing and safety footwear (splash apron and rubber boots) appropriate for the risk of exposure. See Australian Standards (AS 2161 & 2919 and AS/NZS 2210). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. See Australian Standards (AS/NZS 1715 & 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form : Liquid Colour : Clear, pale yellow
Odour:	Characteristic (sulphurous)
Odour Threshold:	No data available
pH:	ca. 4
Melting Point:	45 °C
Boiling Point/Range:	~ 220 °C
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Specific Gravity:	1.25 – 1.35
Vapour Density (air=1):	No data available
Vapour Pressure:	No data available
% Volatiles:	No data available
Solubility in water:	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Contact with acids liberates toxic gas.

10.2 Chemical stability

Slowly oxidized on exposure to air and moisture.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur under normal conditions. Oxidizing agents may cause exothermic reactions. Both acidification and heating accelerate the release of Sulphur dioxide fumes.

10.4 Conditions to avoid

Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid other ignition sources. Temperatures at or near boiling point causes evolution of Sulphur dioxide. Avoid excess exposure to air. On exposure to air, the product will lose some Sulphur dioxide and gradually oxidize to sulphate.

10.5 Incompatible materials

Acids. Mineral acids. Oxidizing agents. Corrosive to some metals.

10.5 Hazardous decomposition products

Sulphur dioxide gas. Sulphur oxides. Toxic vapors.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ Oral, rat is 3,550 mg/kg

Respiratory or skin sensitisation

Sodium metabisulphite can sensitise the respiratory tract of allergic persons.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Eye contact: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Skin contact: Contact with skin may result in irritation. May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Inhalation: Breathing in dust may result in respiratory irritation. May cause respiratory sensitisation in sensitive individuals, producing asthma-like symptoms.

11.2 Information on possible routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol, ingestion, skin and/or eye contact.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Avoid contaminating waterways.

Toxicity to fish:

LC₅₀ (S. gairdnerii, fish) = 150-220 mg/L, 96h

LC₅₀ (Mosquito fish) = 240 ppm, 96 h

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods and containers

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

13.3 Special precautions for landfill or incineration

Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Classified as **DANGEROUS GOODS** by the criteria of the ADG Code for transport by road or rail.

Classified as **DANGEROUS GOODS** by the criteria of the IMDG Code for transport by sea.

Classified as **DANGEROUS GOODS** by the criteria of the IATA Code for transport by air.

14.1 UN number

ADG : 2693

IMDG : 2693

IATA : 2693

14.2 Proper shipping name

ADG : BISULPHITES, AQUEOUS SOLUTIONS, N.O.S.

IMDG : BISULPHITES, AQUEOUS SOLUTIONS, N.O.S.

IATA : BISULPHITES, AQUEOUS SOLUTIONS, N.O.S.

14.3 Transport hazard class

ADG : 8 Corrosive

IMDG : 8 Corrosive

IATA : 8 Corrosive

14.4 Packing group

ADG : III

IMDG : III

IATA : III

14.5 Environmental hazards

ADG : Yes

IMDG Marine Pollutant : Yes

IATA : Yes

14.6 Special precautions for users

Incompatible in a placard load with Class 1, Class 4.3, Class 5, Class 6, Class 7 and with food and food packaging in any quantity, however exemptions may apply

14.7 Hazchem code

ADG : 2X

IMDG EMS : F-A, S-B

14.8 Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010)

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

S5 Poison

Carcinogen classification under WHS Regulations 2011, Schedule 10

Not listed

Notification status

AICS On the inventory, or in compliance with the inventory.

16. OTHER INFORMATION

Key / legend to abbreviations and acronyms used in the MSDS

ADG	Australian Dangerous Goods
ASCC	Australian Safety and Compensation Council
DEC	Department of Environment and Conservation
GHS	Globally Harmonised System of Classification & Labelling of Chemicals
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
Eye Dam.	Serious eye damage
TWA	Time weighted average
STEL	Short term exposure level
SWA	Safe Work Australia
LC ₅₀	Lethal concentration that kills 50% of an animal population within a specified time
TD Lo	The lowest dose of a substance known to have produced signs of toxicity
RTECS	Registry of Toxic Effects of Chemical Substances
g/L	Grams per litre
g/cm ³	Grams per cubic centimetre
mg/m ³	Milligrams per cubic metre
mg/kg	Milligrams per kilogram

pH Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline
WHS Work Health and Safety

Literature references

“Workplace Exposure Standards for Airborne Contaminants, December 2011” by SWA Work Health and Safety Regulations 2011

“Registry of Toxic Effects of Chemical Substances”. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2012.

Reason(s) for Issue:

Update Contact Details

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