



Sodium Metabisulphite Solution

AGent

AGent SDS: Sodium Metabisulphite Solution [2026.02]

Version No: 2026.02

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Hazard Alert Code: 2

Issue Date: July 2026
Print Date: (auto-fills on print)
AGENT.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Sodium Metabisulphite Solution
Chemical Name	Sodium metabisulphite, aqueous solution
Synonyms	Sodium metabisulphite solution; SMBS solution; bisulphite solution
Proper shipping name	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (sodium metabisulphite)
Chemical formula	$\text{Na}_2\text{S}_2\text{O}_5$ (aqueous)
Other means of identification	Sodium Metabisulphite Solution [2026.02]

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

Identified uses	Antioxidant; food additive (preservative); reducing agent; whitening agent; chlorine neutraliser.
Uses advised against	Do NOT combine with other chemicals or products unless specified by the manufacturer. Avoid contact with acids (liberates toxic sulphur dioxide).

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AGent Sales & Services Pty Ltd
Address	38 May Holman Drive, Bassendean WA 6054, Australia
Telephone	(+61 8) 6270 4500 / 1300 833 844
Website	agentsales.com.au
Email	admin@agentsales.com.au

Emergency telephone number

Association / Organisation	Hazrad (outside 24-hour emergency response provider)
Emergency telephone numbers	08 9418 4200 (24-hour) — answered by Hazrad on AGent's behalf
Other emergency telephone numbers	Poisons Information Centre 131 126 (Australia) / 0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS Class 8 (Corrosive). Scheduled Poison S5. Classified under the WHS Regulations.

Poisons Schedule (SUSMP)	Schedule 5 (S5) — SUSMP
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Classification

- Acute Toxicity (Oral) Category 4 — H302

- Acute Toxicity (Dermal) Category 5 — H313
- Skin Corrosion/Irritation Category 1C — H314
- Serious Eye Damage/Eye Irritation Category 1 — H318 (subsumed by H314)

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

- H302 — Harmful if swallowed.
- H313 — May be harmful in contact with skin.
- H314 — Causes severe skin burns and eye damage.

Supplementary statement(s)

AUH031 — Contact with acids liberates toxic gas (sulphur dioxide).

Precautionary statement(s) Prevention

- P102 — Keep out of reach of children.
- P260 — Do not breathe mist / vapours / spray.
- P264 — Wash skin thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P280 — Wear eye protection / face protection.

Precautionary statement(s) Response

- P301+P330+P331 — IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P312 — Call a POISON CENTRE / doctor if you feel unwell.
- P310 — Immediately call a POISON CENTRE / doctor.
- P303+P361+P353 — IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P321 — Specific treatment (see Section 4).
- P363 — Wash contaminated clothing before reuse.
- 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 CENTRE / doctor.

Precautionary statement(s) Storage

- P405 — Store locked up.
- P406 — Store in a corrosion-resistant container. Keep container tightly closed.

Precautionary statement(s) Disposal

- P501 — Dispose of contents/container in accordance with local, state and federal regulations.

Other hazards

Contact with acids liberates toxic sulphur dioxide gas. Decomposes on heating (>150 °C) emitting toxic sulphur oxides. May sensitise the respiratory tract / skin of allergic (sulphite-sensitive) individuals.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
7681-57-4	20 – 50	Sodium metabisulphite	Acute Tox. 4 (H302); Eye Dam. 1 (H318) — HCIS
7732-18-5	50 – 80	Water	Not classified

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

Immediately rinse with large amounts of running water for at least 15 minutes, keeping eyelids open. Protect the uninjured eye. Check for and remove any contact lenses if easy to do. Consult a physician immediately — can cause corneal burns.

Skin Contact

Remove contaminated clothing and wash skin with running water. If irritation occurs, seek medical advice. Launder clothing before reuse.

Inhalation

Remove victim from area of exposure — avoid becoming a casualty. Loosen clothing, keep at rest and warm. Seek medical advice if effects persist (sulphite-sensitive individuals may develop asthma-like symptoms).

Ingestion

Rinse mouth with water. Do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Severe eye irritant — can cause corneal burns. Dust irritates the respiratory tract. May cause respiratory or skin sensitisation (asthma-like symptoms / allergic dermatitis) in sensitive individuals. Acid contact liberates sulphur dioxide.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

First Aid facilities

Eye wash facilities and a safety shower must be available in any area where this product is handled.

SECTION 5 Firefighting measures

Extinguishing media

Non-combustible. If involved in a fire, use fine water spray, foam, dry chemical or CO₂.

Special hazards arising from the substance or mixture

Fire Incompatibility

When heated to decomposition emits toxic oxides of sulphur. Acid contact liberates sulphur dioxide.

Advice for firefighters

Fire Fighting

Wear self-contained breathing apparatus (SCBA) and suitable protective clothing where decomposition fumes are present.

Fire / Explosion Hazard

Non-combustible solid. Toxic sulphur dioxide / sulphur oxides on decomposition or acid contact.

HAZCHEM Code	2X
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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protective equipment requirements.

Wear respiratory protection. Avoid dust formation; avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8 for PPE.

Environmental precautions

Prevent product entering drains. If contamination of sewers / waterways occurs, advise local emergency services.

Methods and material for containment and cleaning up

Minor Spills

Slippery when spilt — clean up immediately. Contain the spill; absorb with inert material (soil, sand). Collect into a labelled container and dispose of as hazardous waste. Rinse the area with water afterwards.

Major Spills

Contain and collect as above. Prevent run-off to waterways. Notify the Environmental Protection Authority if waterways are threatened.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Avoid skin and eye contact and breathing in dust, vapour, mists and aerosols. Keep out of reach of children. Observe good personal hygiene.

Other information

Keep containers closed when not in use; check regularly for leaks. Store away from foodstuffs and incompatible materials (Section 10).

Conditions for safe storage, including any incompatibilities

Suitable container

Store in a cool, dry place out of direct sunlight. Keep containers closed. Do not store in aluminium or galvanised containers. Store away from foodstuffs, acids and incompatible materials (Section 10). Scheduled Poison S5.

Storage incompatibility

Acids (liberate sulphur dioxide); oxidising agents; aluminium / galvanised metals. See Section 10.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Reference: Safe Work Australia, "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia.

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
SWA WEL 2024	Sodium metabisulphite	Sodium metabisulphite (CAS 7681-57-4)	5 mg/m ³	Not assigned in SWA WEL 2024	Not assigned	SWA WEL 2024 assigns sodium metabisulphite TWA 5 mg/m ³ . Additionally control any liberated sulphur dioxide to the SO ₂ WEL 2024 (STEL 0.65 mg/m ³ / 0.25 ppm) — WEL 2024 sharply lowered the SO ₂ limit from the former WES; control dust to dust (n.o.s.) limits.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Sodium metabisulphite	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH		Revised IDLH
Sodium metabisulphite	Not established (NIOSH)		Not established (NIOSH)

MATERIAL DATA

No whole-mixture occupational exposure data are available; manage on a per-component basis (above).

Exposure controls

Appropriate engineering controls

Apply the hierarchy of controls (WHS Reg 36). Where elimination or substitution is not reasonably practicable: provide local exhaust ventilation at points of vapour / mist generation; use closed transfer systems where possible; ensure general ventilation is adequate to keep airborne concentrations below the applicable WEL. Document the risk assessment supporting the chosen control hierarchy.

Individual protection measures, such as personal protective equipment

Eye and face protection

Safety glasses with side shields (AS/NZS 1336 & 1337) as a minimum. Chemical goggles and a face shield (AS/NZS 1336 & 1337) where splash potential exists.

Skin protection

See Hand protection below.

Hands/feet protection

Protective gloves and protective clothing (AS 2161, AS/NZS 2210). Chemical goggles / safety glasses with side shields; face shield where dust / splashing possible (AS/NZS 1336 & 1337). Where dust exceeds the exposure limit, a P1/P2 particulate respirator (AS/NZS 1715 & 1716). Eye-wash and safety shower must be available.

Body protection

See Other protection below.

Other protection

Long-sleeved chemical-resistant protective clothing and apron (PVC or equivalent)

Respiratory protection

If a risk assessment indicates an inhalation risk exists, wear a half-face or full-face respirator with appropriate filter (selection per AS/NZS 1715; respirator per AS/NZS 1716). Specific cartridge / canister recommendation to be confirmed during respiratory protection risk assessment per AS/NZS 1715.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Clear, pale yellow liquid
Physical state	Liquid
Odour	Characteristic (sulphurous)
Odour threshold	No data available in source SDS
pH (as supplied)	ca. 4 (acidic)
Melting point / freezing point (°C)	ca. 45 °C
Initial boiling point and boiling range (°C)	ca. 220 °C
Flash point (°C)	Not applicable — non-combustible
Evaporation rate	Not applicable
Flammability	Not flammable (non-combustible)
Upper Explosive Limit (%)	Not applicable
Lower Explosive Limit (%)	Not applicable
Vapour pressure (kPa)	No data available in source SDS
Solubility in water	Miscible in water
Vapour density (Air = 1)	No data available in source SDS
Relative density (Water = 1)	1.25 – 1.35
Partition coefficient n-octanol/water	Not applicable — ionic
Auto-ignition temperature (°C)	Not applicable — non-combustible
Decomposition temperature (°C)	No data available in source SDS
Viscosity (cSt)	Higher than water
Molecular weight (g/mol)	190.1 g/mol

Taste	Not applicable — do not taste
Explosive properties	None known
Oxidising properties	None — reducing agent
Surface Tension (dyn/cm or mN/m)	Not applicable
Volatile Component (% vol)	Water
Gas group	Not applicable
pH as a solution (1%)	Acidic (~4)
VOC g/L	0 g/L — inorganic; no VOC

SECTION 10 Stability and reactivity

Reactivity	Contact with acids liberates toxic sulphur dioxide. Reducing agent. See Section 10.
Chemical stability	Stable under normal dry storage conditions. Slowly oxidises / decomposes in moist air.
Possibility of hazardous reactions	Acid contact liberates sulphur dioxide. Reacts with oxidising agents. Hazardous polymerisation will not occur.
Conditions to avoid	Moisture; heat; contact with acids and oxidisers.
Incompatible materials	See Section 7. Acids; oxidising agents; aluminium / galvanised metals.
Hazardous decomposition products	Sulphur dioxide and sulphur oxides on heating or acid contact.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Breathing in dust may cause respiratory irritation; may cause respiratory sensitisation (asthma-like symptoms) in sensitive individuals.

Ingestion

Harmful if swallowed — may cause GI irritation, nausea, vomiting.

Skin Contact

Corrosive — contact may cause severe burns. May cause skin sensitisation / allergic contact dermatitis in sensitive individuals on repeated or prolonged contact.

Eye

Severe eye irritant — corrosive; contact can cause corneal burns and permanent injury.

Chronic

No component $\geq 0.1\%$ is an IARC carcinogen. Sulphite sensitivity is a recognised effect in susceptible (e.g. asthmatic) individuals.

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
Sodium metabisulphite	Oral LD50 (rat): 3,550 mg/kg (as solution)	Eye — severe / corrosive; Skin — possible sensitiser

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	✓ Acute Toxicity (Oral) Category 4 (H302)	Carcinogenicity	—
Skin Irritation/Corrosion	✓ Skin Corrosion Category 1C (H314); possible sensitiser — see Section 11	Reproductive Toxicity	—
Serious Eye Damage/Irritation	✓ Serious Eye Damage Category 1 (H318)	STOT — Single Exposure	—
Respiratory or Skin Sensitisation	Possible respiratory / skin sensitiser in sensitive individuals (not formally classified)	STOT — Repeated Exposure	—
Mutagenicity	—	Aspiration Hazard	—

Legend: ✓ = Data available to make classification; — = Data either not available or does not fill the criteria for classification.

Information on possible routes of exposure

May be absorbed by ingestion, inhalation of dust, eye and skin contact.

Additional Information

RTECS	UX8225000 (sodium metabisulphite)
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
Sodium metabisulphite	LC50 (Salmo gairdneri / rainbow trout)	96 h	Fish	150 – 220 mg/L	AGent SDS

Environmental precaution: Prevent entry to drains, waterways and soak-aways. Notify the relevant Environmental Protection Authority if waterway contamination occurs.

Persistence and degradability

Ingredient	Persistence: Water / Soil	Persistence: Air
Sodium metabisulphite	Hydrolyses / oxidises to sulphate in water; depletes dissolved oxygen (reducing agent).	Not applicable — non-volatile solid.

Bioaccumulative potential

Ingredient	Bioaccumulation
Sodium metabisulphite	Does not bioaccumulate (inorganic, ionic).

Mobility in soil

Ingredient	Mobility
Sodium metabisulphite	Soluble and mobile in water.

Other adverse effects

May deplete dissolved oxygen in receiving water (reducing agent). Avoid uncontrolled discharge to waterways.

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible.
- Ensure waste disposal conforms to all relevant local, state and federal authority waste disposal regulations.
- Do NOT discharge into sewers or waterways.
- Empty containers should be returned via AGent's Closed Loop container return program where applicable.
- Whatever cannot be saved for recovery or recycling should be managed through an approved waste disposal facility.
- Dispose of in accordance with local, state and federal regulations. After recovery, rinse the area and contaminated materials with water.

SECTION 14 Transport information

Labels Required	Class 8 (Corrosive)
Marine Pollutant	Yes
HAZCHEM Code	2X

Land transport (ADG)

UN number	2693
UN proper shipping name	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (sodium metabisulphite)
Transport hazard class(es)	8 (Corrosive), PG III. Classified as DANGEROUS GOODS by the criteria of the ADG Code for transport by road or rail.
Packing group	III
Environmental hazard	Marine Pollutant
Special precautions for user	Incompatible in a placard load with Class 1, 4.3, 5, 6, 7 and with food / food packaging in any quantity (exemptions may apply). Per ADG Table 3.2.3 (UN 2693 PG III) Special Provisions: 274 - the proper shipping name must be supplemented with the technical name. Limited Quantity: 5L; Excepted qty: E1; Packaging P001.
ERG / EIP number	ANZ-ERG 2024 Guide 154.

Air transport (ICAO-IATA / DGR)

UN number	2693
UN proper shipping name (lowercase)	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
ICAO/IATA Class	Class 8 (Corrosive), PG III
Packing group	III
Environmental hazard	Environmentally hazardous
Special provisions	Classified as DANGEROUS GOODS by the criteria of the IATA Code for transport by air.
Cargo Only Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Cargo Only Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.

Sea transport (IMDG-Code / GGVSee)

UN number	2693
UN proper shipping name	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (sodium metabisulphite)
IMDG Class	Class 8 (Corrosive), PG III
Packing group	III
Environmental hazard	Marine Pollutant: Yes
EMS Number	F-A, S-B
Special provisions	Classified as DANGEROUS GOODS by the criteria of the IMDG Code for transport by sea.

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

Not Applicable — AGen does not transport this product in bulk by sea.

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Sodium Metabisulphite Solution	Not Applicable — AGen does not transport this product in bulk by sea.

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Sodium Metabisulphite Solution	Not Applicable — AGen does not transport this product in bulk by sea.

SECTION 15 Regulatory information**Safety, health and environmental regulations / legislation specific for the substance or mixture**

SODIUM METABISULPHITE (CAS 7681-57-4) is found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Acute Tox. 4 (H302); Eye Dam. 1 (H318)
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5 (S5)
- Australian Inventory of Industrial Chemicals (AIIC): Listed
- IARC Group classification: Not classified
- Schedule 10 of the model WHS Regulations (prohibited / restricted carcinogens): Not listed
- Schedule 14 of the model WHS Regulations (health monitoring trigger): Not listed

Additional Regulatory Information

Subject to: Work Health and Safety (General) Regulations 2022 (WA); "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia; Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) current edition.

National Inventory Status

Country / Inventory	Listed
Australia (AIIC / AICS)	Yes
Canada (DSL)	Not applicable — AGen does not export this product
Canada (NDSL)	Not applicable — AGen does not export this product
China (IECSC)	Not applicable — AGen does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGen does not export this product
Japan (ENCS)	Not applicable — AGen does not export this product
Korea (KECI)	Not applicable — AGen does not export this product
New Zealand (NZIoC)	Not applicable — AGen does not export this product
Philippines (PICCS)	Not applicable — AGen does not export this product
USA (TSCA)	Not applicable — AGen does not export this product
Taiwan (TCSI)	Not applicable — AGen does not export this product
Mexico (INSQ)	Not applicable — AGen does not export this product
Vietnam (NCI)	Not applicable — AGen does not export this product
Russia (FBEPH)	Not applicable — AGen does not export this product

Legend: Yes = All CAS declared ingredients are on the inventory; No = One or more CAS listed ingredients are not on the inventory (may be exempt or require registration).

SECTION 16 Other information

Revision Date	July 2026
Initial Date	June 2026 (AGent 2026 format)

SDS Version Summary

Version	Date of Update	Sections Updated
2026.02 (AGent 2026 format)	July 2026	§3 ingredient classification(s) harmonised to the substance-level determination for CAS 7681-57-4 (SWA HCIS where listed; documented supplier basis otherwise) — cross-CAS consistency triage, 24 July 2026. Substance classification is a property of the CAS number and must be identical across all AGent SDS.
2026.01 (AGent 2026 format); earlier: V2.2 (legacy AGent format)	June 2026	Reformatted from the legacy V2.2 document to AGent 2026 SDS layout. §8 to SWA WEL 2024 (SO ₂ surrogate); §14 ERG to ANZ-ERG 2024 Guide 154 (legacy HB76 #37); AICS→AIC. Classification carried from legacy (Acute Tox 4 + Acute Tox 5 + Skin Corr 1C + Eye Dam 1; DG Class 8 PG III UN2693; Marine Pollutant; S5).

Other information

This SDS is intended as a hazard communication tool to assist in workplace Risk Assessment. It is not an Australian Standard or a definitive document.

Definitions and abbreviations

Abbreviation	Definition
ADG	Australian Dangerous Goods Code
AICS / AIC	Australian Inventory of Industrial Chemicals (formerly AICS)
AUH	Additional / Australian Hazard statements
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service Registry Number
DNEL	Derived No Effect Level
DSEN	Dermal sensitiser (SWA WEL 2024 notation)
EC50	Effect Concentration causing effect in 50% of test population
EMS	IMDG Emergency Schedule
ERG / EIP	Emergency Response Guide / Emergency Information Panel (SAA/SNZ HB76)
ES	Exposure Standard (legacy term — now WEL)
GHS	Globally Harmonised System of Classification and Labelling
HCIS	Hazardous Chemical Information System (Safe Work Australia)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal Concentration causing death in 50% of test population
LD50	Lethal Dose causing death in 50% of test population
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupational Exposure Limit
OTO	Ototoxic (SWA WEL 2024 notation)
PC-STEL	Permissible Concentration — Short Term Exposure Limit
PC-TWA	Permissible Concentration — Time Weighted Average
PNEC	Predicted No Effect Concentration
RSEN	Respiratory sensitiser (SWA WEL 2024 notation)
SDS	Safety Data Sheet

Sk	Skin notation — absorption through the skin a significant route
STEL	Short Term Exposure Limit (15 min TWA)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TEEL	Temporary Emergency Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hr / 40 hr week)
WEL	Workplace Exposure Limit (Safe Work Australia, April 2024)
WHS	Work Health and Safety

Disclaimer

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