

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Sodium Metabisulphite

**Other Identifier:** Sodium metabisulfite, Disulfurous acid, sodium salt

**Supplier:** Big Bubble  
**ABN:** 51 290 656 636

**Street Address:** 18 Elliott Street  
Midvale  
Western Australia

**Telephone Number:** +61 08 9274 1992

**Poisons Information Centre:** 131 126 Australia

## 2. HAZARDS IDENTIFICATION

**Road and Rail;** Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

### Globally Harmonised System

#### Hazard Classification

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

#### Hazard Categories

Acute Toxicity (Oral) - Category 4  
Serious Eye Damage/Irritation - Category 1

#### Pictogram



**Name of pictogram**  
Corrosive

Exclamation Mark

**Signal Word**  
Danger

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## Hazard Statements

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
AUH031 Contact with acids liberates toxic gas

## Precautionary Statement

### Prevention

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

## Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P305 + P351 +  
P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

## Disposal

Dispose of contents/container in accordance with local / regional / national / international regulations

Poisons Schedule: S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion
Sodium metabisulphite	7681-57-4	>=90 %
Ingredients determined not to be hazardous		Balance %

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

<b>Ingestion:</b>	IF SWALLOWED: Rinse mouth, then drink a glass of water. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice.
<b>Eye Contact:</b>	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Centre or doctor/physician for advice.
<b>Skin Contact:</b>	IF ON SKIN: Remove contaminated clothing and shoes immediately. Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.
<b>Inhalation:</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
<b>Medical attention and special treatment:</b>	Treat symptomatically. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## 5. FIRE FIGHTING MEASURES

<b>General</b>	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
<b>Flammability Conditions</b>	Non-Combustible Material
<b>Suitable Extinguishing Media:</b>	If material is involved in a fire, use water spray or Carbon dioxide (CO <sub>2</sub> ) for extinction. In case of fire in the surroundings, use appropriate extinguishing media.
<b>Fire and Explosion Hazards</b>	Decomposes on heating; This produces sulfur oxides
<b>Hazardous combustion products:</b>	Fire or heat may produce irritating, toxic and/or corrosive fumes. Do not inhale explosion and combustion gases.
<b>Precautions for fire fighters and special protective equipment:</b>	Collect contaminated fire extinguishing water separately - This must not be discharged into drains. Wear self contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
<b>Protective equipment:</b>	Use personal protective equipment as required (see SECTION 8).
<b>Emergency procedures:</b>	Spill or leak area should be isolated immediately. Remove persons to safety. Keep unauthorised/unprotected personnel away.
<b>Environmental Precautions:</b>	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of escape/entry into waterways, soil or drains, inform the responsible authorities.
<b>Methods and materials for Containment and clean up:</b>	Collect material (sweep or vacuum up) and seal in properly labelled containers for disposal (see SECTION 13). If appropriate, moisten first to prevent dusting. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud. Wash area with plenty of water. Retain contaminated washing water and dispose appropriately.

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## 7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

<b>Conditions for safe storage:</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid exposure to air and moisture. Keep away from heat and sources of ignition - No smoking. Keep away from food/feedstuffs and incompatible materials (see SECTION 10). Keep in the original container. Do not reuse empty containers for other products or items.
<b>Precautions for safe handling:</b>	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Before making transfer operations, make sure that there aren't any incompatible material residuals in the containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure control measures:</b>	For Sodium metabisulphite (CAS No. 7681-57-4): - Safe Work Australia Exposure Standard: TWA = 5 mg/m <sup>3</sup> - New Zealand Workplace Exposure Standard: TWA = 5 mg/m <sup>3</sup> - NIOSH REL: TWA = 5 mg/m <sup>3</sup>
<b>Biological Monitoring</b>	No information available.
<b>Engineering Controls</b>	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
<b>Personal Protective Equipment</b>	
<b>Eye and Face</b>	Wear appropriate eye protection to prevent eye contact. Recommended: Eye glasses with side protection or chemical goggles.
<b>Skin</b>	Handle with gloves. Recommended: Impervious gloves. Use protective gloves that provide comprehensive protection. Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes. Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
<b>Respiratory</b>	In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particle filter device (refer to AS/NZS 1715 & 1716).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid
<b>Colour:</b>	White
<b>Auto Ignition temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	No Data Available
<b>Evaporation Rate:</b>	No Data Available
<b>Flammability:</b>	No Data Available
<b>Flash Point:</b>	No Data Available
<b>Initial Boiling Point:</b>	No Data Available
<b>Melting/Freezing Point:</b>	>150°C
<b>Freezing Point:</b>	No Data Available
<b>Odour:</b>	Pungent (sulfur dioxide)
<b>Odour Threshold:</b>	No Data Available
<b>Partition coefficient:</b>	No Data Available
<b>Octanol Water coefficient:</b>	-3.7
<b>pH:</b>	3.5-5 (5%)
<b>Relative Density:</b>	No Data Available
<b>Solubility:</b>	470 g/L in water 20°C
<b>Upper Flammability Limit</b>	No Data Available
<b>Lower Flammability Limit:</b>	No Data Available
<b>Explosive limits:</b>	No Data Available
<b>Vapour density:</b>	No Data Available
<b>Vapour pressure:</b>	No Data Available
<b>Viscosity:</b>	No Data Available
<b>Biopersistence:</b>	No Data Available
<b>Crystallinity:</b>	No Data Available
<b>Dustiness:</b>	No Data Available
<b>Particle size:</b>	No Data Available
<b>Redox potential:</b>	No Data Available

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<b>Release of invisible flammable vapours and gases</b>	Decomposes on heating and on contact with acids - This produces sulfur oxides.
<b>Specific Gravity</b>	1.2 - 1.3
<b>Saturated Vapour Concentration</b>	No Data Available

## 10. STABILITY AND REACTIVITY

<b>General Information:</b>	The substance is a strong reducing agent; It reacts violently with oxidants. Slowly oxidised to sulfate on exposure to air and moisture. Contact with acids liberates toxic gas (sulfur oxides).
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid generating dust. Avoid exposure to heat.
<b>Incompatible materials:</b>	Incompatible/reactive with acids and oxidising agents.
<b>Hazardous decomposition products:</b>	Decomposes on heating and on contact with acids - This produces sulfur oxides.
<b>Hazardous reactions or Polymerisation:</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

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:

<b>Exposure Limits:</b>	For Sodium metabisulphite (CAS No. 7681-57-4): - Safe Work Australia Exposure Standard: TWA = 5 mg/m <sup>3</sup> - New Zealand Workplace Exposure Standard: TWA = 5 mg/m <sup>3</sup> - NIOSH REL: TWA = 5 mg/m <sup>3</sup>
<b>Ingestion:</b>	Harmful if swallowed. The substance is severely irritating to the gastrointestinal tract; Symptoms include abdominal pain, diarrhoea, nausea, vomiting.
<b>Eye contact:</b>	Causes serious eye damage. Symptoms include redness, pain.
<b>Skin contact:</b>	Not classified; Based on available data, the classification criteria are not met.
<b>Inhalation:</b>	Inhalation may cause asthma-like reactions in sensitive individuals.
<b>Acute Toxicity:</b>	Acute toxicity (Oral): - LD50, Rat: >1,540 mg/kg (Sodium metabisulphite) [Supplier's SDS]. Respiratory/skin sensitisation: Not classified; Based on available data, the classification criteria are not met. Germ cell mutagenicity: Not classified; Based on available data, the classification criteria are not met. Carcinogenicity: Not classified; Based on available data, the classification criteria are not met.

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Reproductive toxicity: Not classified; Based on available data, the classification criteria are not met.  
STOT (single exposure): Not classified; Based on available data, the classification criteria are not met. Breathing in dust may be irritating to the respiratory tract.  
STOT (repeated exposure): Not classified; Based on available data, the classification criteria are not met.  
Aspiration hazard: Not classified; Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Aquatic acute toxicity (Sodium metabisulphite):  
- LC50, Fish = 150 - 220 mg/l (96 h).  
- EC50, Daphnia = 89 mg/l (48 h).  
- EC50, Algae = 48 mg/l (72 h).  
- EC50, Bacteria = 56 mg/l (17 h).

**Persistence and degradability** No information available.

**Bioaccumulative potential  
Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** 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. Or refilled at Big Bubble in Midvale.

**Special Precautions for Land:** Fill Recover if possible. Send waste to an authorised disposal facility for incineration under controlled conditions.

## 14. TRANSPORT INFORMATION

**Road and Rail Transport** Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**UN number:** No Data Available  
**Proper shipping name:** Sodium metabisulphite  
**DG Class:** No Data Available  
**Packing group:** No Data Available  
**Environmental hazards for transport purposes:** No Data Available  
**Special Precaution for user:** No Data Available  
**Hazchem:** No Data Available

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

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## Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

**Poisons Schedule:** S5

POTASSIUM METABISULPHITE when packed for domestic use **except** in preparations containing 10 per cent or less of potassium metabisulphite.

### First Aid:

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).

If swallowed, do NOT induce vomiting.

### Warning statement:

Irritant.

(Powder) (and) (concentrated solutions) are dangerous if swallowed.

### Safety Directions:

Avoid contact with eyes.

Avoid contact with skin.

## 16. OTHER INFORMATION

Revision date: 01/10/2021

Reason for issue: Update SDS

Key/Legend:

< Less Than<sup>[SEP]</sup>

> Greater Than<sup>[SEP]</sup>

**AICS** Australian Inventory of Chemical Substances<sup>[SEP]</sup>

**atm** Atmosphere<sup>[SEP]</sup>

**CAS** Chemical Abstracts Service (Registry Number)<sup>[SEP]</sup>

**cm<sup>2</sup>** Square Centimetres<sup>[SEP]</sup>

**CO<sub>2</sub>** Carbon Dioxide<sup>[SEP]</sup>

**COD** Chemical Oxygen Demand<sup>[SEP]</sup>

**deg C (°C)** Degrees Celcius<sup>[SEP]</sup>

**g** Grams<sup>[SEP]</sup>

**g/cm<sup>3</sup>** Grams per Cubic Centimetre<sup>[SEP]</sup>

**g/l** Grams per Litre<sup>[SEP]</sup>

**HSNO** Hazardous Substance and New Organism<sup>[SEP]</sup>

**IDLH** Immediately Dangerous to Life and Health<sup>[SEP]</sup>

**immiscible** Liquids are insoluble in each other.<sup>[SEP]</sup>



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**inHg** Inch of Mercury

**inH<sub>2</sub>O** Inch of Water

**K** Kelvin

**kg** Kilogram

**kg/m<sup>3</sup>** Kilograms per Cubic Metre

**LC<sub>50</sub>** LC stands for lethal concentration. LC<sub>50</sub> is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD<sub>50</sub>** LD stands for Lethal Dose. LD<sub>50</sub> is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

**ltr or L** Litre

**m<sup>3</sup>** Cubic Metre

**mbar** Millibar

**mg** Milligram

**mg/24H** Milligrams per 24 Hours

**mg/kg** Milligrams per Kilogram

**mg/m<sup>3</sup>** Milligrams per Cubic Metre

**Misc** or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

**mm** Millimetre

**mmH<sub>2</sub>O** Millimetres of Water

**mPa.s** Millipascals per Second

**N/A** Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Health and Safety Commission

**OECD** Organisation for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

**Pa** Pascal

**ppb** Parts per Billion

**ppm** Parts per Million

**ppm/2h** Parts per Million per 2 Hours

**ppm/6h** Parts per Million per 6 Hours

**psi** Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value

**TWA** Time Weighted Average

**UN** United Nations

**wt** Weight

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Midland Chemicals control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries.