

1. IDENTIFICATION

Product Name	Sodium metabisulphite
Other Names	Disulfurous acid, disodium salt
Uses	For industrial use, food additive, reducing agent, whitening agent, for professional use.
Chemical Family	No Data Available
Chemical Formula	H ₂ O ₅ S ₂ .2Na
Chemical Name	Sodium metabisulphite
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) 5

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



Pictograms



Signal Word

Danger

Hazard Statements

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

Precautionary Statements

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.
	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.
Disposal	P330	Rinse mouth.
	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications

Health Hazards	6.1D	Substances that are acutely toxic - Harmful
	6.3A	Substances that are irritating to the skin
	6.5A	Substances that are respiratory sensitisers
	6.5B	Substances that are contact sensitisers
	8.3A	Substances that are corrosive to ocular tissue
Environmental Hazards	9.1D	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
	9.2B	Substances that are ecotoxic in the soil environment
	9.3C	Substances that are harmful to terrestrial vertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium metabisulphite	Na ₂ S ₂ O ₅	7681-57-4	>=90 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed

If swallowed: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain immediate medical care. Never give anything by mouth to an unconscious person.

Eye

Eye contact: Rinse cautiously with water for several minutes, holding eyelids open and protecting the uninjured eye. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a Poison Centre or



doctor/physician.

Skin	Skin contact: 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.
Inhaled	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. Call a Poison Centre or doctor/physician if experiencing respiratory symptoms, or if you feel unwell.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area.
Flammability Conditions	May burn but does not ignite readily.
Extinguishing Media	Suitable: Water or Carbon dioxide (CO2).
Fire and Explosion Hazard	Do not inhale explosion and combustion gases.
Hazardous Products of Combustion	Fire may produce irritating and toxic fumes.
Special Fire Fighting Instructions	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Personal Protective Equipment	Wear self contained breathing apparatus (SCBA) and suitable protective equipment.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Increase ventilation. Do not touch or walk through spilled material. Prevent dust cloud.
Clean Up Procedures	Sweep or vacuum. Avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.
Containment	Stop leak if safe to do so. Prevent entry into waterways, drains or confined areas.
Decontamination	Wash area with plenty of water. Retain contaminated washing water and dispose appropriately.
Environmental Precautionary Measures	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised/unprotected personnel away.
Personal Precautionary Measures	Wear personal protective equipment (see Section 8).

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Ensure adequate ventilation. Wear personal protective equipment (see Section 8). Avoid contact with skin and eyes. Avoid breathing dust. Before making transfer operations, ensure that containers are free from any incompatible materials/residues. Do NOT reuse empty containers unless they have been thoroughly cleaned.
Storage	Store in a cool, dry and well-ventilated place. Keep away from food, drink and feed. Keep away from acids and oxidising agents. Keep containers closed when not in use. Check regularly for spills.
Container	Keep in original container.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Safe Work Australia (SWA) Exposure Standard for Sodium metabisulphite (CAS No. 7681-57-4): - Time Weighted Average (TWA): 5 mg/m ³ DNEL Values: - Inhalation (worker): 225 mg/m ³ (long-term, systemic effects) - Inhalation (consumer): 66 mg/m ³ (long-term, local effects) - Ingestion (consumer): 8.6 mg/kg (long-term, local effects)
Exposure Limits	No Data Available
Biological Limits	PNEC Values for Sodium metabisulphite (CAS No. 7681-57-4): - Freshwater: 1 mg/l - Marine water: 0.1 mg/l - Sewage treatment (microorganisms): 75.4 mg/l
Engineering Measures	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. Adequate ventilation should be provided so that exposure limits are not exceeded.
Personal Protection Equipment	Respiratory protection: Wear a particle filter device (DIN EN 143). Eye protection: Eye glasses with side protection. Hand protection: Use protective gloves that provide comprehensive protection. Suitable material: UNI EN 420/UNI EN 374. Skin/body protection: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or Viton.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke while working. Always wash hands before smoking, eating, drinking or using the toilet. Contaminated clothing should be changed before entering eating areas. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystals or powder
Odour	Pungent
Colour	White
pH	3.5 - 5.0 (5%)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	>150 °C
Freezing Point	>150 °C
Solubility	470 g/L water 20°C
Specific Gravity	1.2 - 1.3
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	-3.7
Particle Size	No Data Available
Partition Coefficient	No Data Available



Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	No information available.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire may produce irritating and toxic fumes. Contact with acids liberates toxic gas.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid exposure to heat. Avoid dust formation.
Materials to Avoid	Avoid acids and oxidising agents.
Hazardous Decomposition Products	Fire may produce irritating and toxic fumes. Contact with acids liberates toxic gas.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	<p>Skin corrosion/irritation: Not classified. Based on available data, the classification criteria are not met.</p> <p>Serious eye damage/irritation: Causes serious eye damage.</p> <p>Respiratory/skin sensitisation: Not classified. Based on available data, the classification criteria are not met.</p> <p>Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity: Not classified. Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met.</p> <p>STOT - single exposure: Not classified. Based on available data, the classification criteria are not met.</p> <p>STOT - repeated exposure: Not classified. Based on available data, the classification criteria are not met.</p> <p>Aspiration hazard: Not classified. Based on available data, the classification criteria are not met.</p>
Acute	
Ingestion	<p>Acute Oral Toxicity:</p> <ul style="list-style-type: none"> - Rat LD50 >1,540 mg/kg
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	<p>Acute aquatic toxicity:</p> <ul style="list-style-type: none"> - Fish: LC50 = 150 - 220 mg/l (96 h) - Daphnia: EC50 = 89 mg/l (48 h) - Algae: EC50 = 48 mg/l (72 h)
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- Bacteria: EC50 = 56 mg/l (17 h)

Persistence/Degradability	No information available.
Mobility	No information available.
Environmental Fate	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of waste in accordance with current local/regional/national regulations. Recover if possible.
Special Precautions for Land Fill	Send waste to an authorised disposal facility for incineration under controlled conditions.

14. TRANSPORT INFORMATION

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	SODIUM METABISULPHITE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name	SODIUM METABISULPHITE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name	SODIUM METABISULPHITE
Class	No Data Available
Subsidiary Risk(s)	No Data Available



UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	5

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR001548
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National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	231-673-0
Europe (REACH)	01-2119531326-45-
Japan (ENCS/METI)	1-502
Korea (KECI)	KE-12701
Malaysia (EHS Register)	Listed
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Listed
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes	SOMETA0200, SOMETA0300, SOMETA0400, SOMETA0500, SOMETA0600, SOMETA0700, SOMETA0705, SOMETA0707, SOMETA0708, SOMETA0710, SOMETA0715, SOMETA0720, SOMETA0725, SOMETA0800, SOMETA0900, SOMETA0905, SOMETA0910, SOMETA1000, SOMETA1001, SOMETA1002, SOMETA1003, SOMETA1004, SOMETA1005, SOMETA1006, SOMETA1007, SOMETA1008, SOMETA1009, SOMETA1010,
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SOMETA1011, SOMETA1012, SOMETA1013, SOMETA1014, SOMETA1015, SOMETA1016, SOMETA1017, SOMETA1018, SOMETA1019, SOMETA1020, SOMETA1021, SOMETA1022, SOMETA1023, SOMETA1024, SOMETA1025, SOMETA1026, SOMETA1100, SOMETA1101, SOMETA1102, SOMETA1103, SOMETA1200, SOMETA1205, SOMETA1250, SOMETA1300, SOMETA1301, SOMETA1400, SOMETA1500, SOMETA1600, SOMETA1700, SOMETA1705, SOMETA1800, SOMETA1801, SOMETA1802, SOMETA1803, SOMETA1804, SOMETA1805, SOMETA1806, SOMETA1807, SOMETA1808, SOMETA1809, SOMETA1810, SOMETA1811, SOMETA1812, SOMETA1813, SOMETA1814, SOMETA1815, SOMETA1816, SOMETA1817, SOMETA1818, SOMETA1827, SOMETA1828, SOMETA1829, SOMETA1830, SOMETA1831, SOMETA1832, SOMETA1833, SOMETA1834, SOMETA1835, SOMETA1836, SOMETA1837, SOMETA1900, SOMETA2000, SOMETA2100, SOMETA2150, SOMETA2200, SOMETA2300, SOMETA2400, SOMETA2401, SOMETA2402, SOMETA2403, SOMETA2404, SOMETA2405, SOMETA2406, SOMETA2407, SOMETA2408, SOMETA2409, SOMETA2410, SOMETA2411, SOMETA2412, SOMETA2413, SOMETA2414, SOMETA2415, SOMETA2416, SOMETA2417, SOMETA2418, SOMETA2419, SOMETA2420, SOMETA2421, SOMETA2422, SOMETA2423, SOMETA2424, SOMETA2425, SOMETA2426, SOMETA2427, SOMETA2428, SOMETA2500, SOMETA2501, SOMETA2502, SOMETA2503, SOMETA2504, SOMETA2505, SOMETA2506, SOMETA2600, SOMETA2601, SOMETA2700, SOMETA2701, SOMETA2800, SOMETA2900, SOMETA3000, SOMETA3100, SOMETA3101, SOMETA3106, SOMETA3200, SOMETA3201, SOMETA3202, SOMETA3300, SOMETA3400, SOMETA3500, SOMETA3501, SOMETA3502, SOMETA3600, SOMETA3700, SOMETA3800, SOMETA3900, SOMETA3901, SOMETA3902, SOMETA3903, SOMETA3904, SOMETA3905, SOMETA3906, SOMETA3909, SOMETA3910, SOMETA3911, SOMETA4000, SOMETA4001, SOMETA4002, SOMETA4003, SOMETA4100, SOMETA4101, SOMETA4102, SOMETA4103, SOMETA4104, SOMETA4105, SOMETA4106, SOMETA4107, SOMETA4108, SOMETA4200, SOMETA4201, SOMETA4202, SOMETA4203, SOMETA4204, SOMETA4205, SOMETA4206, SOMETA4207, SOMETA4208, SOMETA4209, SOMETA4210, SOMETA4211, SOMETA4212, SOMETA4213, SOMETA4214, SOMETA4215, SOMETA4300, SOMETA4301, SOMETA4302, SOMETA4303, SOMETA4304, SOMETA4400, SOMETA4500, SOMETA4501, SOMETA4502, SOMETA4600, SOMETA4700, SOMETA4701, SOMETA4800, SOMETA4900, SOMETA5000, SOMETA5001, SOMETA5002, SOMETA5100, SOMETA5101, SOMETA5102, SOMETA5200, SOMETA5201, SOMETA5300, SOMETA5301, SOMETA5400, SOMETA5401, SOMETA5500, SOMETA5501, SOMETA5502, SOMETA5600, SOMETA5601, SOMETA5700, SOMETA5701, SOMETA5800, SOMETA5801, SOMETA5802, SOMETA5900, SOMETA5901, SOMETA6000, SOMETA6001, SOMETA6002, SOMETA6100, SOMETA6200, SOMETA6201, SOMETA6300, SOMETA6400, SOMETA6500, SOMETA6600, SOMETA6700, SOMETA7000, SOMETA7200, SOMETA7400, SOMETA7430, SOMETA7432, SOMETA7500, SOMETA7600, SOMETA7700, SOMETA7701, SOMETA7702, SOMETA7710, SOMETA7800, SOMETA7801, SOMETA7820, SOMETA7850, SOMETA7852, SOMETA7860, SOMETA7900, SOMETA7901, SOMETA7905, SOMETA7910, SOMETA7920, SOMETA8000, SOMETA8100, SOMETA8200, SOMETA8210, SOMETA8215, SOMETA8220, SOMETA8500, SOMETA8600, SOMETA8700, SOMETA8800, SOMETA8900, SOMETA9000, SOMETA9100, SOMETA9200, SOMETA9300, SOMETA9500, SOMETA9600, SOMETA9800, SOMETA9900, SOMETB1000, SOMETB1001, SOMETB2000

Revision

3

Revision Date

29 Jun 2017

Key/Legend

< Less Than
 > Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO₂ Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) Degrees Celcius
EPA (New Zealand) Environmental Protection Authority of New Zealand
deg F (°F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC₅₀ LC stands for lethal concentration. LC₅₀ 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.
LD₅₀ LD stands for Lethal Dose. LD₅₀ 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
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component



present.

mm Millimetre

mmH₂O 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

Oz Ounce

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

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight

