

Safety Data Sheet Sodium metabisulphite Revision 3, Date 29 Jun 2017

1. IDENTIFICATION

Product Name Sodium metabisulphite **Other Names** Disulfurous acid, disodium salt

For industrial use, food additive, reducing agent, whitening agent, for professional use. Uses

Chemical Family No Data Available **Chemical Formula** H2O5S2.2Na

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
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888

2. HAZARD IDENTIFICATION

5 Poisons Schedule (Aust)

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



Sydney







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.

P305 + P351 + P338

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/face protection.

P301 + P312 Response IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

> 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.

P330 Rinse mouth.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous

Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium metabisulphite	No Data Available	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 contact: Rinse cautiously with water for several minutes, holding eyelids open and protecting the uninjured eye. 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** Fire may produce irritating and toxic fumes.

Combustion

Special Fire Fighting

Instructions

Personal Protective Equipment

Wear self contained breathing apparatus (SCBA) and suitable protective equipment.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

Evacuation Criteria

Personal Precautionary

Measures

Spill or leak area should be isolated immediately. Keep unauthorised/unprotected personnel away.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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.

Store in a cool, dry and well-ventilated place. Keep away from food, drink and feed. Keep away from acids and Storage

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/m3

DNEL Values:

- Inhalation (worker): 225 mg/m3 (long-term, systemic effects) - Inhalation (consumer): 66 mg/m3 (long-term, local effects) - Ingestion (consumer): 8.6 mg/kg (long-term, local effects)

Exposure Limits No Data Available



Safety Data Sheet Sodium metabisulphite Revision 3, Date 29 Jun 2017

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 Precaustions 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

OdourPungentColourWhite

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 °CFreezing Point>150 °CSolubility470 g/L 20°CSpecific Gravity1.2 - 1.3 kg/dm3Flash PointNo Data AvailableAuto Ignition TempNo Data AvailableEvaporation RateNo Data Available

Bulk DensityNo Data AvailableCorrosion RateNo Data AvailableDecomposition TemperatureNo Data AvailableDensityNo Data AvailableSpecific HeatNo Data AvailableMolecular WeightNo Data AvailableNet Propellant WeightNo 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 No Data Available Viscosity 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

No information available.

Fire

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 Skin corrosion/irritation: Not classified. Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye damage.

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. 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. 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.

Acute

Ingestion Acute Oral Toxicity:

- Rat LD50 >1,540 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Acute aquatic toxicity:

- Fish: LC50 = 150 - 220 mg/l (96 h)- Daphnia: EC50 = 89 mg/l (48 h) - Algae: EC50 = 48 mg/l (72 h) - Bacteria: EC50 = 56 mg/l (17 h)

Persistence/Degradability No information available. Mobility No information available.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. **Environmental Fate**

Bioaccumulation Potential No information available. No Data Available **Environmental Impact**



13. DISPOSAL CONSIDERATIONS

General InformationDispose 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 (Australia)

ADG Code

Proper Shipping Name SODIUM METABISULPHITE

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

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

Air Transport

IATA DGR

Proper Shipping Name SODIUM METABISULPHITE

ClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationNOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous

Goods by Road & Rail (ADG Code)



15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) 5

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, SOMETA0800, SOMETA1000, SOMETA1000, SOMETA1001, SOMETA1002, SOMETA1003, SOMETA1004, SOMETA1005, SOMETA1006, SOMETA1007, SOMETA1008, SOMETA1009, SOMETA1010, SOMETA1011, SOMETA1012, SOMETA1013, SOMETA1014, SOMETA1015, SOMETA1016, SOMETA1017, SOMETA1018, SOMETA1019, SOMETA1020, SOMETA1021, SOMETA1022, SOMETA1023, SOMETA1024, SOMETA1100, SOMETA1101, SOMETA1102, SOMETA1103, SOMETA1200, SOMETA1300, SOMETA1301, SOMETA1400, SOMETA1500, SOMETA1600, SOMETA1800, SOMETA1900, SOMETA2000, SOMETA2100, 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, SOMETA3200, SOMETA3201, SOMETA3202, SOMETA3300, SOMETA3400, SOMETA3500, SOMETA3501, SOMETA3502, SOMETA3600, SOMETA3700, SOMETA3800, SOMETA3900, SOMETA3901, SOMETA3902, SOMETA3903, SOMETA3904, SOMETA3905, SOMETA4000, SOMETA4001, SOMETA4002, SOMETA4003, SOMETA4100, SOMETA4101, SOMETA4102, SOMETA4103, SOMETA4104, SOMETA4105, SOMETA4106, SOMETA4107, SOMETA4108, SOMETA4200, SOMETA4201, SOMETA4202, SOMETA4203, SOMETA4204, SOMETA4205, SOMETA4206, SOMETA4207, SOMETA4208, SOMETA4209,



Safety Data Sheet Sodium metabisulphite Revision 3, Date 29 Jun 2017

```
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, SOMETA7500, SOMETA7600, SOMETA7700, SOMETA7701, SOMETA7702,
SOMETA7800, SOMETA7801, SOMETA7900, SOMETA8000, SOMETA8100, SOMETA8500, SOMETA8600,
SOMETA8700, SOMETA8800, SOMETA8900, SOMETA9000, SOMETA9100, SOMETA9200, SOMETA9300,
SOMETA9500, SOMETA9600, SOMETA9800, SOMETA9900, SOMETB1000, SOMETB1001, SOMETB2000,
SOMETA1801, SOMETA1802, SOMETA1803, SOMETA1804, SOMETA1805, SOMETA1806, SOMETA1808,
SOMETA1809, SOMETA1810, SOMETA1811, SOMETA1812, SOMETA1813, SOMETA1814, SOMETA1815,
SOMETA1816, SOMETA1817, SOMETA1818, SOMETA1827, SOMETA1828, SOMETA1829, SOMETA1830,
SOMETA1831, SOMETA1832, SOMETA1833, SOMETA1834, SOMETA1835, SOMETA1836, SOMETA1807,
SOMETA1837, SOMETA7430, SOMETA7901, SOMETA3906, SOMETA1205, SOMETA1025, SOMETA1026,
SOMETA7910, SOMETA2150, SOMETA1250, SOMETA8200, SOMETA8210, SOMETA0710, SOMETA0715,
SOMETA8220, SOMETA7710, SOMETA0705, SOMETA0720, SOMETA0725, SOMETA8215, SOMETA7920,
SOMETA3909, SOMETA0707, SOMETA7850, SOMETA3910, SOMETA7820, SOMETA3101, SOMETA0910,
SOMETA3106, SOMETA0905, SOMETA7860
```

Revision

Revision Date Key/Legend 29 Jun 2017

3

< Less Than
> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 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/I 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

Ib 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.

Itr 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 Heath 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



Safety Data Sheet Sodium metabisulphite Revision 3, Date 29 Jun 2017

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

