

1. IDENTIFICATION

Product Name	Sodium Metabisulphite
Other Names	No Data Available
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	Disulfurous acid, sodium salt
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox 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
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Not Scheduled

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 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	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)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications Health Hazards **6.5A** Substances that are respiratory sensitisers
6.5B Substances that are contact sensitisers

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium metabisulphite	Na ₂ S ₂ O ₅	7681-57-4	>=90 - 100 %

4. FIRST AID MEASURES**Description of necessary measures according to routes of exposure**

Swallowed	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.
Eye	IF IN EYES: Protect uninjured eye! 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.
Skin	IF ON SKIN: Wash skin with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	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. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Advice to Doctor	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Do not leave affected persons unattended. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. *Most important symptoms and effects, both acute and delayed: Harmful if swallowed. Causes serious eye damage.
Medical Conditions Aggravated by Exposure	Sodium metabisulfite may enhance symptoms of asthma in sensitive individuals. Approx. 1 % of the population is sensitive to sulfites.

5. FIRE FIGHTING MEASURES

General Measures	Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Cool containers with water spray until well after fire is out.
Flammability Conditions	Non-combustible material.
Extinguishing Media	If material is involved in a fire, use dry chemical, Carbon dioxide (CO ₂), foam or water spray for extinction.
Fire and Explosion Hazard	Decomposes on heating to form Sodium sulfate.
Hazardous Products of Combustion	Fire may produce irritating and/or toxic gases, including Sulphur dioxide (SO ₂), Sodium oxide (Na ₂ O).
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may cause pollution. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
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	Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dusts
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SAFETY DATA SHEET SODIUM METABISULPHITE REVISION 5, DATE 01 JAN 2023

	or mists and contact with eyes, skin and clothing.
Clean Up Procedures	With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.
Containment	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.
Decontamination	Wash with plenty of water.
Environmental Precautionary Measures	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of escape or entry into waterways, soil or drains, inform the responsible authorities.
Evacuation Criteria	Spill or leak area should be isolated immediately. Remove persons to safety. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling	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 dusts or mists 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.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Protect from humidity and water. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10) and food and drink.
Container	Keep in the original container. Do not reuse empty containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	For Sodium metabisulphite (CAS No. 7681-57-4): <ul style="list-style-type: none">- Safe Work Australia Exposure Standard: TWA = 5 mg/m³- New Zealand Workplace Exposure Standard: TWA = 5 mg/m³; Dermal sensitiser (dsen); Respiratory sensitiser (rsen).- NIOSH REL: TWA = 5 mg/m³
Exposure Limits	No Data Available
Biological Limits	No information available.
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.
Personal Protection Equipment	<ul style="list-style-type: none">- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particle filter (P2) device (refer to AS/NZS 1715 & 1716).- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Tightly sealed goggles.- Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. Nitrile rubber, PVC gloves, Fluorocarbon rubber (Viton), Polychloroprene.- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Protective work clothing. 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 when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse. Contaminated clothing should be changed before entering eating areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystals or powder

Odour	Pungent (sulfur dioxide)
Colour	White to yellowish
pH	3.0 - 5.5 50 g/l (at 20 °C)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	>120 °C
Freezing Point	No Data Available
Solubility	470 g/l in water 20°C
Specific Gravity	1.4 (Water = 1)
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	>=150 °C
Density	1.2 g/cm ³
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	-3.7 log POW
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 information 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	Non-combustible material.
Reactions That Release Gases or Vapours	Decomposes on heating and on contact with acids - This produces sulfur oxides.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information 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).

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid generating dust. Avoid exposure to heat.
Materials to Avoid	Incompatible/reactive with acids and oxidising agents.
Hazardous Decomposition Products	Decomposes on heating and on contact with acids - This produces sulfur oxides.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	<ul style="list-style-type: none"> - Acute toxicity: Harmful if swallowed. - 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. Inhalation may cause asthma-like reactions in sensitive individuals. - 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. Substance is not listed (IARC, NTP, OSHA-Ca). - 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. <p>Information on likely routes of exposure:</p> <ul style="list-style-type: none"> - Ingestion: The substance is severely irritating to the gastrointestinal tract. Symptoms include abdominal pain, diarrhoea, nausea, vomiting. Ingestion of sulfite compounds may cause a severe allergic reaction (anaphylactoid symptoms) in sensitive individuals and some asthmatics. - Eye contact: Strong irritant with the danger of severe eye injury. Symptoms include redness, pain. - Skin contact: Repeated or prolonged contact with dust may cause irritation. - Inhalation: May cause respiratory tract irritation with coughing and wheezing. <p>Chronic effects: Prolonged or repeated inhalation may irritate the lungs, may cause bronchitis to develop with cough, phlegm and/or shortness of breath.</p>
Acute	
Ingestion	<p>Acute toxicity (Oral):</p> <ul style="list-style-type: none"> - LD50, Rat: >1,540 mg/kg (Sodium metabisulphite) [Supplier's SDS].
Other	<p>Acute toxicity (Dermal):</p> <ul style="list-style-type: none"> - LD50, Rabbit: >2,000 mg/kg [Supplier's SDS].
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not classified for environmental hazards - Based on available data, the classification criteria are not met.
Persistence/Degradability	No information available.
Mobility	No information available.
Environmental Fate	Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Adopt good working practices, so that the product is not released into the environment.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with current local/regional/national regulations.
Special Precautions for Land Fill	Recover if possible. 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
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR 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
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

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
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name	Sodium Metabisulphite
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SAFETY DATA SHEET SODIUM METABISULPHITE REVISION 5, DATE 01 JAN 2023

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
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.

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)
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15. REGULATORY INFORMATION

General Information	SODIUM METABISULPHITE is a Schedule 5 Poison when packed for domestic use except in preparations containing 10% or less of sodium metabisulphite.
Poisons Schedule (Aust)	Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR001548

National/Regional Inventories

Australia (AIRC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	231-673-0
Europe (REACH)	Not Determined
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, SOMETA0911, 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, SOMETA1025, SOMETA1026, SOMETA1027, SOMETA1035, SOMETA1036, SOMETA1037, SOMETA1039, SOMETA1040, SOMETA1100, SOMETA1101, SOMETA1102, SOMETA1103, SOMETA1200, SOMETA1205, SOMETA1220, SOMETA1221, SOMETA1250, SOMETA1300, SOMETA1301, SOMETA1311, SOMETA1315, SOMETA1316, SOMETA1400, SOMETA1500, SOMETA1600, SOMETA1700, SOMETA1705, SOMETA1706, SOMETA1708, SOMETA1710, SOMETA1711, SOMETA1712, SOMETA1713, SOMETA1714, SOMETA1715, SOMETA1716, 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, SOMETA2201, 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,

SAFETY DATA SHEET SODIUM METABISULPHITE REVISION 5, DATE 01 JAN 2023

SOMETA2428, SOMETA2500, SOMETA2501, SOMETA2502, SOMETA2503, SOMETA2504, SOMETA2505, SOMETA2506, SOMETA2600, SOMETA2601, SOMETA2700, SOMETA2701, SOMETA2800, SOMETA2900, SOMETA3000, SOMETA3002, 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, SOMETA4221, SOMETA4300, SOMETA4301, SOMETA4302, SOMETA4303, SOMETA4304, SOMETA4400, SOMETA4500, SOMETA4501, SOMETA4502, SOMETA4503, SOMETA4600, SOMETA4700, SOMETA4701, SOMETA4800, SOMETA4900, SOMETA5000, SOMETA5001, SOMETA5002, SOMETA5100, SOMETA5101, SOMETA5102, SOMETA5200, SOMETA5201, SOMETA5202, 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, SOMETA7401, 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, SOMETA9810, SOMETA9811, SOMETA9900, SOMETB1000, SOMETB1001, SOMETB2000

Revision	5
Revision Date	01 Jan 2023
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

SAFETY DATA SHEET SODIUM METABISULPHITE REVISION 5, DATE 01 JAN 2023

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