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SAFETY DATA SHEET – Sodium Metabisulphite

1. IDENTIFICATION

Revision Date	July 2023 (*valid for 5 years from this date)*
Product Name	SODIUM METABISULPHITE
Other Names	SODIUM METABISULPHITE; SODIUM DISULFITE (SODIUM METABISULFITE);
Uses	
Contact Information	Chlorine Discounters 43 Clapham Road, Regents Park NSW 2143 Phone: 02-96454433 Fax: 02-96454030 Email:info@chlorinediscounters.com.au W: www.chlorinediscounters.com.au
Emergency Contact	Managing Director or Operations Manager

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportions (%)
SODIUM METABISULPHITE	[7681-57-4]	100.0

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/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) Biological Limits PNEC Values for Sodium metabisulphite (CAS No. 7681-57-4): - Freshwater: 1 mg/l - Marine water: 0.1 mg/l - Sewage treatment (micro organisms): 75.4 mg/l
Exposure Limits	No Data 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. 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%)

Freezing Point	>150 °C
Solubility	470 g/L 20°C
Specific Gravity	1.2 - 1.3 kg/dm3
Melting Point	>150 °C
Auto Ignition Temp	No Data Available
Octanol Water Coefficient	-3.7
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.

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.
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.
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 (Australia)

ADG

UN Number	Not applicable.
Shipping Name	SODIUM METABISULPHITE
Dangerous Goods Class	Not applicable.
Subsidiary Risk	Not applicable.
Pack Group	Not applicable.
Precaution for User	HARMFUL
Hazchem Code	N/A
EPG	37 TOXIC AND/OR CORROSIVE SUBSTANCES Non-Combustible
Special Provision	Not applicable.
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)

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	5
National/Regional Inventories	
Australia (AICS)	Listed

16. OTHER INFORMATION

Literature References	No data available.
Sources for Data	No data available.

Legend to Abbreviations and Acronyms

<	less than
<	greater than
ADG	Australian Dangerous Goods Code
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
cm2	square centimetres
CO2	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C ('C)	degrees Celsius
ERMA	Environmental Risk Management Authority
G	gram
g/cm3	grams per cubic centimetre
g/l	grams per litre
HSNO	Hazardous Substance and New Organism
IATA	International Air Transport Association Dangerous Goods Regulations
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods Code
Immiscible	liquids are insoluble in each other
Kg	kilogram
kg/m3	kilograms per cubic metre
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	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	miscible

Miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
Mm	millimetre
mPa.s	milli Pascal per second
N/A	Not Applicable
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
Ppb	parts per billion
Ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
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 (number)
Wt	weight

This SDS summarises Chlorine Discounters best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Chlorine Discounters expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the SDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.