A: 43 Clapham Road, Regents Park NSW 2143
P: (02) 9645 4433
F: (02) 9645 4030
E: info@chlorinediscounters.com.au
W: www.chlorinediscounters.com.au

SAFETY DATA SHEET – SODIUM BISULPHATE

1. IDENTIFICATION

Revision Date	July 2023 (*valid for 5 years from this date)*
Product Name	SODIUM BISULPHATE
Other Names	Dry Acid
Uses	pH adjustment
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	Serious Eye Damage/Irritation - Category 1
Pictograms	



Signal Word	Danger	
Hazard Statements	H318	Causes serious eye damage.
Precautionary Statements		
Prevention	P280	Wear eye protection/face protection.

Response	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.
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	CAS Number	Proportions (%)
Sodium Bisulphate	[7681-38-1]	93-100%

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	If swallowed, Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Eye	Rinse immediately and thoroughly with plenty of water for at least 15 minutes and consult a physician. Call a physician immediately.
Skin	Take off all contaminated clothing immediately. Wash off skin and hair with soap and water. If skin irritation persists, call a physician.
Inhaled	Move to fresh air. Call a physician immediately.
Advice to Doctor	Treat symptomatically. Show this safety data sheet to the doctor in attendance.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Flammability Conditions	Non-flammable.
Extinguishing Media	Suitable: Use dry chemical, CO_2, water spray or alcohol resistant foam. Unsuitable: High volume water jet.
Fire and Explosion Hazard	The pressure in sealed containers can increase under the influence of heat. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors.
Hazardous Products of Combustion	Burning produces noxious and toxic fumes: SOx, NaOx.

Special Fire Fighting Instructions	In the event of fire, cool tanks with water spray.
Personal Protective Equipment	Wear self-contained breathing apparatus.
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 breathe vapours or spray mist. Avoid contact with skin and eyes.
Clean Up Procedures	Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.
Containment	Prevent further leakage or spillage if safe to do so.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Evacuation Criteria	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Only qualified personnel equipped with suitable protective equipment may intervene.
Personal Precautionary Measures	Wear personal protective equipment. See also section 8.

7. HANDLING AND STORAGE

Handling	Use only in area provided with appropriate exhaust ventilation. Ensure that eye flushing systems and safety showers are located close to the working place. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.
Storage	Store in dry, cool, well-ventilated area. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from open flames, hot surfaces and sources of ignition.
Container	Keep in original container as approved by the manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No exposure information available for this specific product. Safe Work Australia Exposure Standard for Rogue dust (inspirable dust): TWA = 10 mg/m3.
Exposure Limits	No Data Available

Biological Limits	Environmental compartment: PNEC value aqua (freshwater): 11.09 mg/l aqua (marine water): 1.11 mg/l aqua (intermittent, freshwater): 17.66 mg/l sediment (marine water): 4.02 mg/kg dwt soil: 1.54 mg/kg dwt sewage treatment plant: 800 mg/l
Engineering Measures	Ensure adequate ventilation. 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	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. EYE PROTECTION: Tightly fitting safety goggles. HAND PROTECTION: Rubber gloves; PVC. SKIN/BODY PROTECTION: Chemical-resistant overalls. RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a full face mask. Recommended Filter type: ABEK/P2. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe.
Special Hazards Precautions	Do not flush into surface water or sanitary sewer system. Comply with applicable Community environmental protection legislation.
Work Hygienic Practices	When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before re-use. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystals / granular
Odour	None
Colour	White, light yellow
pH	1.3
Melting Point	315 °C
Specific Gravity	1.4 kg/L - 1.5 kg/L
Solubility	ca. 1080 g/L 25°C
Decomposition Temperature	460 °C
Octanol Water Coefficient	-2.2 (KOWWIN)
Additional Characteristics	Watery solution: same properties as H2SO4. Fine granules, crystals or powder. Fine substance that can cause the irritation of the airways, with coughing and the contraction of the airways. In contact with water the product forms sulphuric acid that can cause burns.
Potential for Dust Explosion	No information available.
Reactions That Release Gases or Vapours	Acidic aqueous solution. Gives off hydrogen by reaction with metals.
Release of Invisible Flammable Vapours and Gases	Vapours may form explosive mixture with air.

10. STABILITY AND REACTIVITY

Chemical Stability	Hygroscopic.
Conditions to Avoid	Avoid dust formation. Avoid moisture, heat. Keep away from open flames, hot surfaces and sources of ignition.
Materials to Avoid	Avoid moisture absorption and contamination.
Hazardous Decomposition Products	Gives off hydrogen by reaction with metals (acidic aqueous solution). Vapours may form explosive mixture with air.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	Inhalation: May cause irritation of respiratory tract. Inhalation may provoke the following symptoms: Shortness of breath, cough, dry/sore throat. Skin contact: May be irritating. Skin contact may provoke the following symptoms: Redness, pain, blisters. Eye contact: Causes serious eye damage. Eye contact may provoke the following symptoms: Redness, pain. Ingestion: Ingestion may cause irritation to mucous membranes. Ingestion may provoke the following symptoms: Abdominal pain, burning sensation.
Ingestion	Acute Oral Toxicity - Rat LD50: 2,140 mg/kg sulphuric acid
Inhalation	Acute Inhalation Toxicity - Rat (4 h) LC50 >2,400 mg/m3 Sodium sulphate
Skin Irritant	Not classified (Not classified due to data which are conclusive although insufficient for classification.) pH: 1.3
Eye Irritant	Causes serious eye damage. pH: 1.3
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Component: Sodium hydrogen sulphate (7681-38-1): Toxic to aquatic organisms. LC50/96h/fish: 7960 mg/l EC50/48h/daphnia: 1766 mg/l LC50/72h/algae: 1900 mg/l
Persistence/Degradability	Hydrolysis in water.
Mobility	Highly mobile in soils.
Environmental Fate	Results of PBT and vPvB assessment: Not required (inorganic).
Bioaccumulation Potential	Low potential. Partition coefficient: n-octanol/water: -2,2 (KOWWIN)
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with all local, state and federal regulations.
Special Precautions for Land Fill	Collect and dispose of waste product at an authorised disposal facility.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG

UN Number	Not applicable.
Shipping Name	SODIUM BISULPHATE
Dangerous Goods Class	Not applicable
Subsidiary Risk	Not applicable.
Pack Group	Not applicable.
Precaution for User	IRRITANT
Hazchem Code	N/A
EPG	Not applicable.
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.