



PRICE CHEMICALS PTY LIMITED

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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Revision Date JULY 2011

Product Name SODIUM BISULPHATE

Other Names

SODIUM HYDROGEN SULPHATE ; NITERCAKE ; SODIUM ACID SULPHATE ;
SODIUM HYDROGEN SULPHATE ;

Uses Flux for decomposing minerals, substitute for sulfuric acid in dyeing, disinfectant, manufacture of sodium hydrosulfide, sodium sulfate and soda alum, liberating carbon dioxide in carbonic acid baths, in thermophores, carbonizing wool, manufacture of magnesia cements, paper, soap, perfumes, foods, industrial cleaners, metal pickling compounds, lab reagent.

Contact Information

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	10 Pile Rd Somersby NSW 2250 Australia	+61 2 43400088	Technical Officer
Poison Information Centre	Westmead NSW Australia	131126	
Chemcall 24 Hour Emergency Number	Australia New Zealand	1800-127406 0800-243622	
National Poisons Centre	New Zealand	0800-764766	

2. HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC.IRRITANT

Risk Phrases

R41 Risk of serious eye damage.

Safety Phrases

S2 Keep out of reach of children.

S24 Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek
S26 medical advice.

ERMA New Zealand Approval Code HSR002503

HSNO Hazard Classification 6.1E 6.3A 8.1A 8.3A

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The ERMA Web Site should be consulted for a full list of triggered controls and cited regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportions (%)
SODIUM BISULPHATE	[7681-38-1]	> 92

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed Do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek medical attention.

Eye Immediately flush eyes with plenty of water holding eyelids open. Seek medical attention.

Skin Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.

Inhaled Remove victim from exposure to fresh air. If breathing difficult, apply artificial respiration as needed. Seek medical attention.

Advice to Doctor Treat symptomatically based on individual reactions of patient and judgement of doctor. NOTE: For advice in an emergency, contact a Poisons Information Centre (Australia 13-11-26 or New Zealand 0800-764-766).

Aggravated medical conditions caused by exposure No information available on medical conditions which are aggravated by exposure to this product. However, in contact with water the product forms sulphuric acid that can cause burns.

5. FIRE FIGHTING MEASURES

Extinguishing Media In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. Never use a water spray.

Hazards from Combustion Products Non-combustible solid. Avoid generating dust. Incompatible with water and sources of ignition. Poisonous sulphur dioxide vapours form when heating to decomposition. In contact with water, the product hydrolyses and forms an acid solution which is corrosive. Watery solution corrodes metals with release of hydrogen which is a flammable gas and forms an explosive mixture with air.

Special Protective Precautions and Equipment for Fire Fighters Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

Flammability Conditions Product is a non-flammable solid.

Additional Information

Hazchem Code N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Ensure that walking surfaces are not slippery before walking on them. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management Authority. Use spark-proof tools and equipment.

Methods and Materials for Containment and Clean Up Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal. Do NOT rinse away with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment.

Conditions for Safe Storage (Including Any Incompatibles) Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including water and sources of ignition. Protect from moisture. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Type Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC) formerly known as NOHSC. However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Biological Limit Values No information available on biological limit values for this product.

Engineering Controls 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 RESPIRATOR: Wear an approved, suitable respirator if engineering controls are inadequate (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: PVC or neoprene gloves (AS2161). CLOTHING: Impervious coveralls and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance white or light yellow powder or crystals

Formula NaHSO₄

Odour odourless

Vapour Pressure Not applicable.

Vapour Density Not applicable.

Boiling Point Not applicable.

Purex Dry Acid

Melting Point Not applicable.

Solubility in Water 1080g/L

Specific Gravity 1.4-1.5kg/L (Water = 1)

Flash Point Not applicable.

pH 1.3 (1.2% solution)

Lower Explosion Limit Not applicable.

Upper Explosion Limit Not applicable.

Ignition Temperature Not applicable.

Specific Heat Value Not applicable.

Particle Size Not applicable.

Volatile Organic Compounds (VOC) Content Not applicable.

Evaporation Rate Not applicable.

Viscosity Not applicable.

Percent Volatile Not applicable.

Octanol/Water partition coefficient Not applicable.

Saturated Vapour Concentration Not applicable.

Additional Characteristics Not applicable.

Flame Propagation/Burning Rate of Solid Materials Not applicable.

Properties of Materials That May Initiate or Contribute to Fire Intensity Not applicable.

Potential for Dust Explosion Not applicable.

Reactions that Release Flammable Gases Watery solution corrodes metals with release of flammable hydrogen.

Fast of Intensely Burning Characteristics Not applicable.

Non-flammables That Could Contribute Unusual Hazards to a Fire Not applicable.

Release of Invisible Flammable Vapours and Gases No data available.

Decomposition Temperature No data available.

Additional Information

10. STABILITY AND REACTIVITY

Chemical Stability Product is stable under normal conditions of use, storage and temperature.

Conditions to Avoid Avoid excessive heat, dusty conditions, static discharges, moisture and high temperatures.

Incompatible Materials Incompatible with water and sources of ignition.

Hazardous Decomposition Products In contact with water, the product decomposes with the formation of sulphuric acid (corrosive).

Hazardous Reactions No data available.

11. TOXICOLOGICAL INFORMATION

Toxicity Data Oral LD50 Rat: 2490mg/Kg Skin Irritation: Non-irritant (rabbit) Eye Irritation: Highly irritating (rabbit) 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. A watery solution has the same properties as sulphuric acid.

Health Effects - Acute

Swallowed Ingestion may cause irritation of the digestive tract.

Eye Risk of serious damage to eyes.

Skin Highly irritating to skin, particularly in humid state.

Inhaled Inhalation of product dust irritates the airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to species living in water. Daphnia magna EC50 48hr: 190mg/L

Persistence and Degradability No information available on persistence/degradability for this product.

Mobility Very mobile in soil.

Environmental Fate (Exposure) Avoid contaminating waterways, drains and sewers.

Bioaccumulative Potential Log Pow: -2,2 Little danger of bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with all local, state, and federal regulations.

Special Precautions for Land Fill or Incineration The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

14. TRANSPORT INFORMATION

Land Transport (Australia)

Regulation Name ADG Code

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.

Land Transport (New Zealand)

Regulation Name NZS5433

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.

Sea Transport

Regulation Name IMDG Code

UN Number No data available.

Shipping Name No data available.

Dangerous Goods Class No data available.

Subsidiary Risk No data available.

Pack Group No data available.

Precaution for User IRRITANT

Hazchem Code No data available.

EPG No data available.

Special Provision Not applicable.

15. REGULATORY INFORMATION

Classified as hazardous in accordance with Annex I European Directive 67/548/EEC and The Australian Safety and Compensation Council (ASCC) formerly known as NOHSC.

Poisons Schedule 5

EPG N/A

AICS Name SULFURIC ACID, MONOSODIUM SALT

NZ Toxic Substance N

HSNO Hazard Classification 6.1E 6.3A 8.1A 8.3A

ERMA Approval Code HSR002503

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

Purex Dry Acid

UN United Nations (number)

wt weight

This MSDS summarises Price Chemicals Pty Ltd 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 Price Chemicals Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the MSDS 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.

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