

MATERIAL SAFETY DATA SHEETS
PRODUCT: SODIUM BISULPHIDE
SOLD AS: Premium Quality Dry Acid, PH MINUS

Date of issue: 19 July 2003

STATEMENT OF HAZARDOUS NATURE

Classified as hazardous according to criteria of WorkSafe Australia

COMPANY DETAILS

Company : Premium Quality Pool Products Pty Ltd
Address: 13-15 Nelson Avenue Padstow NSW 2211
Telephone: (02) 9790 8777
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PRODUCT IDENTIFICATION

Product Name: Sodium Bisulphide
Other Names: Sodium hydrogen sulphide, Sodium bisulphide, Sodium mercaptan, Sodium sulphhydrate, Sodium hydrogen sulphide, Sodium Sulphide, Sodium hydrosulphide.
UN Number: 2949
DG Class: 8 Corrosive
Packing Group: 2
Hazchem Code: 2X Hazchem Code
Poisons Schedule: Toxic Substance
Use: Used as a leather depilatory, pulping agent in paper production, flotation agent and bleaching reagent.

PHYSICAL DESCRIPTION AND PROPERTIES

Appearance: Colourless needles to lemon-yellow flakes.
Hydrogen sulphide odour (rotten eggs).
Specific Gravity (20°C): 1.79
Melting Point (C): 350.0
Rel Vapour Density (air=1): N Av
Boiling Point (C): N/A
Vapour Pressure (20°C): N Av
Decomp. Point (C): N Av
Flash Point (C): N Av

pH (30% solution):	10-11
Flammability Limits (%):	N/A
Viscosity:	N/A
Autoignition Temp (C):	N Av
Evaporation Rate:	N/A
% Volatile by volume: (n-Butyl acetate=1)	N Av
Solubility in water:	Soluble (Typical values only – consult specification sheet)

COMPOSITION

CAS-No.: 16721-80-5

Molecular Formula: H-Na-S

HEALTH HAZARD INFORMATION

No adverse health effects expected if the product is handles in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Effects from Acute Exposure

Swallowed:	Can cause chemical burns to gastrointestinal tract, nausea, vomiting, diarrhoea and abdominal pain.
Eyes:	A severe eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes; contact can cause corneal burns.
Skin:	Contact with skin will result in severe irritation. Corrosive to skin – may cause skin burns.
Inhalation:	Inhalation of dust may result in respiratory irritation. Exposure to moisture, heat or acids can result in the formation of hydrogen sulphide gas. At low concentrations of hydrogen sulphide (50 to 500 ppm) irritation of the mucous membranes and respiratory tract can occur (2,3). At higher concentrations (600 ppm) nausea, dizziness and oedema occur (3). Lethal hydrogen sulphide toxicity following inhalation of 1000to 2000 ppm paralyses the respiratory system and breathing ceases. Loss of sense of smell can occur at concentration of 150 to 200ppm hydrogen sulphide (2).

Effects from Chronic Exposure

No data available for the product.

Acute toxicity/Chronic toxicity

No LD50 data available for the product.

FIRST AID

- Ingestion:** Immediately rinse mouth with water. **DO NOT** induce vomiting. Seek immediate medical attention. Poison Information Centre phone **13 11 26** Australia wide.
- Eyes:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Urgently seek medical assistance. Transport to hospital or medical centre.
- Skin:** If skin contact occurs, remove contaminated clothing immediately and wash skin with plenty of cold water. See a Doctor immediately.
- Inhalation:** Remove victim from exposure – avoid becoming a casualty. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek urgent medical attention.
- Notes to physician:** Treat symptomatically. Can cause corneal burns.

FIRST AID FACILITIES

Eye wash and safety shower in area of use

PRECAUTIONS FOR USE

ENGINEERING CONTROLS

Use adequate ventilation to maintain atmospheric dust and vapour concentration at lowest practicable level. Avoid generating and inhaling dusts. If inhalation risk exists, use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

PERSONAL PROTECTION

Avoid skin and eye contact. Wear overalls, chemical goggles, dust mask, impervious gloves, rubber boots and rubber apron when working with large volumes. Use with adequate ventilation. If inhalation risk exists, wear respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before re-using.

FLAMMABILITY

Not combustible under normal circumstances. Dust explosion severity tests undertaken by the US Bureau of Mines determined that BCDMH is not ignitable.

STORAGE AND HANDLING

PACKING AND LABELLING

Spills and Disposal

Avoid inhalation dust. Work upwind or increase ventilation. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Cover with damp absorbent (inert material, sand or soil).

FIRE AND/OR EXPLOSION HAZARD

Specific hazards:	Non combustible material.
Fire fighting further advice:	Non combustible. Contact with acids and moisture will produce highly toxic and flammable hydrogen sulphide gas. Hydrogen sulphide has a flammable range in air of 4.0% to 4.4%. Decomposes on heating emitting toxic fumes including those of sulphur oxides (SO _x). Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
Suitable extinguishing media:	Not combustible, however if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

CONTACT INFORMATION

CONTACT: CHIEF EXECUTIVE OFFICER: (02) 9790 8777

DISCLAIMER

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