



Paramount Pools & Spas

a division of PoolQuip Limited

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If you have a Chemical Emergency phone 111 and ask for Fire
In case of Poisoning contact The National Poisons Centre on 0800 POISON (0800 764 766)
The most current version of this document is available online at www.poolquip.co.nz

MATERIAL SAFETY DATA SHEET (MSDS)

1.0 Product & Company Information

Revision Date: April 2011
Product Name: **Sodium Bisulphate**
Other Names: Sodium Hydrogen Sulphate, Sodium Acid Sulphate, PH Down, PH Decrease
Uses: Decreasing the Ph of Water in Swimming Pools
Distributor Details: As per details above, and any of our authorised retailers and distributors

2.0 Hazard Data

Hazardous according to criteria of NOHSC/ASCC.

Risk Phrases: R41 Risk of serious eye damage
Safety Phrases: S2 Keep out of reach of children.
S24 Avoid contact with Skin
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

ERMA New Zealand Approval Code: HSR002503

HSNO Hazard Classification: 6.1E 6.3A 8.1A 8.3A

3.0 Composition

Chemical Name: Sodium Bisulphate
CAS Number: 7681-38-1
Percentage Rating: >92%

4.0 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.

Eyes: 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: 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.

5.0 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.

Hazchem Code

N/A

6.0 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.

7.0 Handling & 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
compatibles)

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.

8.0 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/m ³ (for inspirable dust) and 3mg/m ³ (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).

9.0 Physical and Chemical Properties

Appearance	white or light yellow powder or crystals
Formula	NaHSO ₄
Odour	odourless
Vapour Pressure	Negligible
Vapour Density	Not Applicable
Boiling Point	Not Applicable
Melting Point	851°C deg C
Solubility in Water	1080g/L
Specific Gravity	1.4-1.5kg/L (Water = 1)
Flash Point	Not Applicable
pH	1.3 (1.2% solution)
Rate of Solid Materials	Fire Accelerant
Decomposition Temperature	No data available
Additional Information	Watery solution corrodes metals with release of flammable hydrogen.

10.0 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.

11.0 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.

12.0 Ecological Information

Ecotoxicity	No data available
Persistence and Degradability	No information available on persistence/degradability for this product
Mobility	Very mobile in soil.
Environmental Fate (Exposure)	Avoid contaminating drains, sewers or waterways. This product is unlikely to adversely effect the environment. Salts, acids and bases are typically diluted and neutralized when released to the environment in small quantities.
Bioaccumulative Potential	Log Pow: -2,2 Little danger of bioaccumulation.

13.0 Disposal Considerations

Disposal	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of at an approved facility.
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.

14.0 Transport Information

Land and Sea Transport

UN Number	Not Applicable
Shipping Name	Sodium Bisulphate
Dangerous Goods Class	Non Hazardous
Packing Group	Not Applicable
Hazchem Code	Not Applicable

15.0 Regulatory Information

Classified as hazardous according to The Australian Safety and Compensation Council (ASCC) and Annex I European Directive 67/548/EEC.

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

16.0 Other Information

None