



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 Bicarbonate**
Other Names: Alkalinity Up, PH Buffer, Water Neutraliser, Baking Soda
Uses: Increasing the Total Alkalinity in Swimming Pools
Distributor Details: As per header and any of our authorised retailer and distributors

2.0 Hazard Data

Not Hazardous according to the criteria of NOHSC/ASCC
Risk Phrases: None available
Safety Phrases: S22 Do not breathe dust.
S25 Avoid Contact with Eyes
ERMA New Zealand Approval Code: None available
HSNO Hazard Classification: None available

3.0 Composition

Chemical Name:	Sodium Bicarbonate
CAS Number:	144-55-8
Percentage Rating:	>99%

4.0 First Aid Measures

Description of necessary measures according to routes of exposure.

Swallowed:	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms develop, seek medical attention.
Eyes:	Immediately flush eyes with plenty of water holding eyelids open. If irritation persists, seek medical attention.
Skin:	Remove contaminated clothing. Flush affected area with plenty of water. If irritation persists, seek medical attention.
Inhaled:	Remove victim from exposure to fresh air. If rapid recovery does not occur, 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 from exposure to this product.

5.0 Fire Fighting Measures

Extinguishing Media	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.
Hazards from Combustion Products	Non-combustible solid. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Incompatible with oxidizing agents, acids, water and sources of ignition. When involved in a fire, this product may generate sodium compounds, carbon dioxide, usually without carbon monoxide and smoke.
Special Protective Precautions and	Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

Equipment for Fire
Fighters

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. 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.

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 waste container and dispose of promptly. Once pick up is complete, flush spill site with plenty of water to eliminate any residue preventing run-off from entering drains.

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. Avoid contact with eyes, skin and clothing. Do not breathe dust.

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 oxidizing agents, acids, water and sources of ignition. Protect from direct sunlight and moisture. Store below 30°C in temperature. Keep containers away from water. 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 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). 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	Currently, there are no Biological Exposure Indices (BEIs) determined for the components of 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 effective dust mask where dusts are generated (AS1715/1716) EYES: Safety glasses with side shields (AS1336/1337) HANDS: Wear elbow-length PVC gloves when skin contact is likely (AS2161) CLOTHING: Standard work uniform/clothing and safety footwear (AS3765/2210)

9.0 Physical and Chemical Properties

Appearance	White crystalline powder
Formula	NaHCO ₃
Odour	odourless, slightly alkaline taste
Vapour Pressure	Negligible mm Hg (1 atmosphere)
Vapour Density	Not Applicable
Boiling Point	Not Applicable
Melting Point	Approx 70 Deg C.
Solubility in Water	Soluble
Specific Gravity	2.159 (Water = 1)
Flash Point	Not Applicable
pH	8.4 (1% solution)
Rate of Solid Materials	Fire Accelerant
Decomposition Temperature	Begins to decompose about 70°C
Additional Information	Solubility: Soluble in water. Insoluble in alcohol. NOTE: Stable in dry air, but slowly decomposes in moist air.

10.0 Stability and Reactivity

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, generating dust, direct sunlight, moisture and high temperatures.

Incompatible Materials	When involved in a fire, this product may generate sodium compounds, carbon dioxide, usually without carbon monoxide and smoke.
Hazardous Decomposition Products	Hazardous polymerization will not occur.
Hazardous Reactions	Hazardous Polymerisation will not occur.

11.0 Toxicological Information

Toxicity Data	No toxicological information available for this product.
Health Effects – Acute	
Swallowed	This product may be irritating to the mucous membranes but is unlikely to cause anything more than transient discomfort.
Eye	May be mildly irritating to the eyes, but is unlikely to cause anything more than mild discomfort which should disappear once the product is removed.
Skin	This product is unlikely to cause any skin discomfort in normal use.
Inhaled	This product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism.

12.0 Ecological Information

Ecotoxicity	No data available
Persistence and Degradability	No information available on persistence/degradability for this product
Mobility	No information available on mobility for this product.
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	No information available on bioaccumulation for this product.

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	Contact a specialist disposal company or the local waste regulator for advice. This should be done in accordance with the Hazardous Waste Act. This material may be suitable for a secure landfill.

14.0 Transport Information

Land and Sea Transport

UN Number	Not Applicable
Shipping Name	Calcium Hypochlorite
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	N/A
EPG	N/A
AICS Name	Carbonic Acid, Monosodium Salt
NZ Toxic Substance	N
HSNO Hazard Classification	No Data Available
ERMA Approval Code	No Data Available

16.0 Other Information

None