



Paramount Pools & Spas

a division of PoolQuip Limited

North Island:

PO Box 12840, Penrose, Auckland, New Zealand
282 Neilson Street, Onehunga, Auckland, New Zealand
Phone: 0064 9 634 9097 E-Mail: info@poolquip.co.nz

South Island:

PO Box 8622 Riccarton, Christchurch, New Zealand
75 Blenheim Road, Riccarton, Christchurch New Zealand
Phone: 0064 3 343 3441 E-Mail: paramount.chc@xtra.co.nz



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: **Soda Ash**

Other Names: Sodium Carbonate, Calcined Soda, Ph Increase, Ph Up

Uses: Increasing the Ph of Water in Swimming Pools

Distributor Details: As per header and any of our authorised retailers and distributors

2.0 Hazard Data

Not Hazardous according to the criteria of NOHSC/ASCC

Risk Phrases: R36 Irritating to Eyes

Safety Phrases: S22 Do not breathe dust.

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

ERMA New Zealand Approval Code: HSR003265

HSNO Hazard Classification: 6.1B 6.3A 6.4A 6.9B

3.0 Composition

Chemical Name: Soda Ash
CAS Number: 497-19-8
Percentage Rating: 100%

4.0 First Aid Measures

Description of necessary measures according to routes of exposure.

Swallowed: Rinse mouth with water. Give plenty of water to drink provided victim is conscious. Do NOT induce vomiting. Seek medical attention.

Eyes: Immediately flush eyes with plenty of water holding eyelids open. If irritation persists, 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 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 Persons with pre-existing eye disorders, skin disease or respiratory problems may be more susceptible to the effects from this product.

5.0 Fire Fighting Measures

Extinguishing Media In case of fire, appropriate extinguishing media include; Small fire- use dry chemical, carbon dioxide, water spray or foam. Large fire- use water spray, fog or foam.

Hazards from Combustion Products Non-combustible solid. Incompatible with oxidizing agents, acids, aluminium powder, hydrated lime, fluorine, phosphorous pentoxide, sulfuric acid, ammoniacal silver nitrate, molten lithium, magnesium and sources of ignition. Violent reaction with acids or water generating heat. Violent reaction with phosphorus pentoxide. Mixture with fluorine may ignite and burn fiercely. May cause explosive reaction with magnesium.

May cause explosive reaction with aluminium, if aluminium is red hot. Reacts with hydrated lime in the presence of moisture to form corrosive caustic soda. Hazardous decomposition products include carbon dioxide, carbon monoxide, sodium oxide and sodium.

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. 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 disposal.

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 sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect from physical damage. Store away from incompatible materials including oxidizing agents, acids, hydrated lime, aluminium powder, fluorine, phosphorous pentoxide, sulphuric acid, ammoniacal silver nitrate, molten lithium and sources of ignition. Protect from direct sunlight, moisture and static charges. Hygroscopic. 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	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 approved, suitable respirator (AS1715/1716) where engineering controls are inadequate. EYES: Safety glasses with side shields (AS1336/1337). HANDS: Wear protective gloves (AS2161). CLOTHING: Protective coveralls and safety footwear (AS3765/2210).

9.0 Physical and Chemical Properties

Appearance	White granular solid
Formula	Na ₂ CO ₃
Odour	odourless
Vapour Pressure	Negligible
Vapour Density	Not Applicable
Boiling Point	Not Applicable
Melting Point	851°C deg C
Solubility in Water	220g/L (20°C)
Specific Gravity	2.532 (Water = 1)
Flash Point	Not Applicable
pH	11.5 (50g/L H ₂ O (25°C))
Rate of Solid Materials	Fire Accelerant
Decomposition Temperature	No data available
Additional Information	Molecular Weight: 105.99 Bulk Density: 50-65lb/cu ft Solubility: Soluble in glycerol. Insoluble in alcohol.

10.0 Stability and Reactivity

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, direct sunlight, static discharges, generating dust, moisture and high temperatures.
Incompatible Materials	Incompatible with oxidizing agents, acids, hydrated lime, aluminium

powder, fluorine, phosphorous pentoxide, sulphuric acid, ammoniacal silver nitrate, molten lithium, magnesium, alkaline metals, organic nitro compounds, water and sources of ignition.

Hazardous Decomposition Products Hazardous decomposition products include carbon dioxide, carbon monoxide, sodium oxide and sodium. Reacts with hydrated lime in the presence of moisture to form corrosive caustic soda.

Hazardous Reactions Hazardous polymerization will not occur. Reacts with hydrated lime in the presence of moisture to form caustic soda which is a corrosive. Violent reaction with acids or water generating heat. Violent reaction with phosphorus pentoxide. Mixture with fluorine may ignite and burn fiercely. May cause explosive reaction with magnesium. May cause explosive reaction with aluminium, if aluminium is red hot.

11.0 Toxicological Information

Toxicity Data Oral LD50 Rat: 2463mg/Kg (intraperitoneal) Oral LD50 Mouse: 117mg/Kg Skin Irritation: 50mg/24hr (rabbit) moderate Eye Irritation: 100mg/24hr (rabbit) severe

Health Effects – Acute

Swallowed May be harmful if swallowed. May cause irritation of the mouth, throat and stomach. Concentrated solutions may be corrosive, resulting in cramps, vomiting, diarrhoea and possibly circulatory collapse and death.

Eye Dust or concentrated solutions may irritate or burn the eyes. Prolonged contact may cause permanent damage.

Skin Dust and weak solutions may be irritating to skin of sensitive individuals causing redness and blistering. Concentrated solutions may be corrosive, causing severe irritation and burning. Repeated/prolonged skin contact may cause dermatitis and ulceration of the skin.

Inhaled Inhalation of dust may cause irritation of the nose, throat and lungs. Symptoms may include coughing, sneezing, headache, laryngitis and difficulty breathing.

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 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	Soda Ash
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	Carbonic Acid
NZ Toxic Substance	4
HSNO Hazard Classification	6.1B 6.3A 6.4A 6.9B
ERMA Approval Code	HSR003265

16.0 Other Information

None