

# SAFETY DATA SHEET

## Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

**Product Name:** Soda Ash  
**Other Names:** Sodium Carbonate, Washing Soda  
**Recommended Use:** General Chemical

**National Poisons Information Centre:** 0800 POISON (0800 764 766)  
**Emergency Telephone Number:** 0064 21934058  
**Transport Emergency:** 111 – Tell operator what service is needed: Fire, Ambulance, Police.

## Section 2: HAZARD IDENTIFICATION

**Hazard Classifications:** 6.1B, 6.3A, 6.4A, 6.9B  
**Priority Identifiers:** **WARNING,**  
**KEEP OUT OF REACH OF CHILDREN**  
**Secondary Identifiers:** 6.1B (acutely toxic)  
6.3A (irritating to skin)  
6.4A (irritating to eyes)  
6.9B (harmful to human target organs or systems)  
**Hazard Statement:** Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

## Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Sodium Carbonate	497-19-8	>99%
Impurities		<1%

## Section 4: FIRST AID MEASURES

**First Aid Measures:** Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning  
**Inhalation:** Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately  
**Ingestion:** Never give anything by mouth to an unconscious person. If swallowed rinse mouth and give 1-2 glasses of water to dilute but DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately

<b>Skin:</b>	Remove contaminated clothing then wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance
<b>Eye:</b>	Flush with plenty of water holding eyelids open if necessary. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes
<b>Advice to Doctor:</b>	Treat symptomatically and as for a weak alkali. Refer to National Poisons and Hazardous Chemicals Information Centre 0800 764 766

### Section 5: FIRE FIGHTING MEASURES

<b>Combustion Products:</b>	Non-combustible material. Decomposes on heating emitting toxic fumes including those of carbon
<b>Extinguishing Media:</b>	This product is non-combustible, if material is involved in fire use: Water fog or water spray, foam, dry agent (carbon dioxide, dry chemical powder).
<b>Protective Equipment:</b>	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk to exposure to products of decomposition

### Section 6: ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal:</b>	Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in dust. Sweep up, but avoid dust generation. Collect and seal in properly labelled containers or drums for safe disposal. After product is cleaned up wash the contaminated area with water, preventing run off in to drains. Promptly dispose of recovered material in accordance with all regulations. Wash damaged containers with water before disposal.
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental Precaution:</b>	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority

### Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Read label and obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid skin and eye contact and breathing dust. Avoid handling which leads to dust formation. Use personal protective equipment as required. Wash hands and exposed skin thoroughly after handling.
<b>Storage:</b>	Store in a cool place out of direct sunlight. Store away from acids and moisture. Keep out of reach of children. Keep containers closed when not in use – check regularly for spills
<b>Other Information:</b>	Always read the label before use. See label for further information on handling and storage

### Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Exposure Limits:</b>	<p>No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).</p> <p>However, Workplace Exposure Standard(s) for particulates:</p> <p>Particulates not otherwise classified: 8 hr WES-TWA = 10mg/m<sup>3</sup> (inspirable dust) or 3mg/m<sup>3</sup> (respirable dust).</p> <p>As published by the New Zealand Occupational Safety and Health Service (OSH).</p> <p>WES-TWA (Workplace Exposure Standard – Time Weighted Average) – The eight hour, time weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.</p>
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These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity

<b>Protective Equipment:</b>	Wear overalls, chemical goggles and PVC or rubber gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask / respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
<b>Engineering Controls:</b>	Ensure ventilation is adequate to maintain air concentrations below exposure limits. Use exhaust ventilation or wear a dust mask during use. 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. Avoid generating and breathing in dusts. Keep containers closed when not in use.
<b>Hygiene Precautions:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White crystalline or granular solid
<b>Odour:</b>	Odourless
<b>Solubility in Water:</b>	Soluble in water to 220 g/lit @ 22°C
<b>Specific gravity:</b>	2.532 (compressed solid); 0.5 (granular from bulk density)
<b>pH:</b>	11.3 (1% solution)
<b>Melting Point:</b>	851°C

### Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions of use and storage.
<b>Materials to Avoid:</b>	Reacts exothermically with strong acids evolving carbon dioxide. Incompatible with aluminium, lead, magnesium, iron and zinc. Hygroscopic.

### Section 11: TOXICOLOGICAL INFORMATION

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

<b>Ingestion:</b>	No adverse effects expected, however large amounts may cause nausea and vomiting
<b>Inhalation:</b>	Breathing in dust may result in respiratory irritation
<b>Skin:</b>	Contact with skin may result in irritation.
<b>Eye:</b>	An eye irritant.
<b>Chronic Effects:</b>	Repeated or prolonged skin contact may cause dermatitis.
<b>Toxicological Data:</b>	Acute Oral LD <sub>50</sub> (ingestion) (rat) 4090 mg/kg Eyes: Moderate irritant (rat)+

### Section 12: ECOLOGICAL INFORMATION

<b>ERMA Classifications:</b>	None
<b>Ecotoxicity:</b>	Fish Toxicity: L. macrochirus LC <sub>50</sub> 300mg/L/96hr Daphnia Toxicity: Daphnia magna EC <sub>50</sub> 265mg/L/48hrs

**Section 13: DISPOSAL INFORMATION**

<b>Product Disposal:</b>	Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be sent to an approved waste disposal contractor for disposal in an approved waste facility. Normally product is suitable for disposal at an approved landfill site. Processing, use or contamination of this product may change the waste management options. Care should be taken to ensure compliance with national and local regulations. This product is NOT for disposal via municipal sewers, drains, natural streams or rivers.
<b>Container Disposal:</b>	Decontaminate empty containers with plenty of water. Dispose of washed containers in accordance with local authority requirements (normally at an approved landfill site).

**Section 14: TRANSPORT INFORMATION**

<b>RAIL/ROAD:</b>	Not classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.
<b>SEA (IMDG Code):</b>	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods (IMDG Code) for transport by sea.
<b>AIR: (ICAO/IATA)</b>	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**Section 15: REGULATORY INFORMATION**

<b>ERMA:</b>	Approved pursuant to the HSNO Act 1996, Approval number HSR003265 See <a href="http://www.erna.govt.nz">www.erna.govt.nz</a> for approval controls.
<b>HSNO:</b>	6.1B (acutely toxic) 6.3A (irritating to skin) 6.4A (irritating to eyes) 6.9B (harmful to human target organs or systems)

**Section 16: OTHER INFORMATION**

This SDS supersedes all previous versions and was reviewed to include HSNO requirements.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.