



chem-supply

# Safety Data Sheet

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Infosafe No™	1CH68	Issue Date : August 2016	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM CARBONATE**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	SODIUM CARBONATE		
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
<b>Recommended use of the chemical and restrictions on use</b>	Glass manufacture, chemicals, pulp and paper manufacture, sodium compounds, soaps and detergents, water treatment, aluminium production, textile processing, cleaning preparations, petroleum refining, sealing ponds from leakage (sodium ions bind to clay particles, which swell to seal leaks), catalyst in coal liquefaction, washing textiles, bleaching linen and cotton, general cleanser, photographic agent, food additive and laboratory reagent.		
<b>Other Names</b>	<b><u>Name</u></b>	<b><u>Product Code</u></b>	
	Soda ash, Washing soda, Dry alkali, Soda decahydrate		
	Sodium Carbonate Decahydrate COSMETIC GRADE		
	Sodium Carbonate (Conforms to BP, USP-NF)		
	SODIUM CARBONATE Anhydrous AR		
	SODIUM CARBONATE Anhydrous LR		
<b>Other Information</b>	SODIUM CARBONATE Decahydrate LR		
	EMERGENCY CONTACT NUMBER: +61 08 8440 2000		
	Business hours: 8:30am to 5:00pm, Monday to Friday.		

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Eye Damage/Irritation: Category 1 Specific target organ toxicity - Single Exposure Category 3 (respiratory tract irritation)
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H318 Causes serious eye damage. H335 May cause respiratory irritation.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark



<b>Precautionary statement – Prevention</b>	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	Inhaled P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. Eyes P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.



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**Precautionary statement – Storage** P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/information on ingredients

<b>Chemical</b>	Solid				
<b>Characterization</b>					
<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
	Sodium carbonate decahydrate	6132-02-1	100 %	Xi	R36
	Sodium carbonate	497-19-8	100 %	Xi	R36
<b>Other Information</b>	Impurities: Sodium chloride, sodium sulfate, sodium bicarbonate, calcium carbonate and magnesium carbonate.				

### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
<b>Skin</b>	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

<b>Hazards from Combustion</b>	May liberate toxic fumes in fire (carbon and sodium oxides).
<b>Products</b>	
<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Material does not burn.
<b>Specific hazards arising from the chemical</b>	Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

### 6. Accidental release measures

<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
<b>Environmental Precautions</b>	Avoid release to the environment.

### 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
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Product Name : **SODIUM CARBONATE**

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**Conditions for safe storage, including any incompatibilities** Store in a cool, dry place. Store away from acids. Keep container tightly closed and dry. Do not use light-weight-metal containers for the decahydrate.

**Corrosiveness** Corrodes aluminium and zinc.

## 8. Exposure controls/personal protection

**Other Exposure Information** A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established.

**Appropriate engineering controls** In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

**Respiratory Protection** Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Eye Protection** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Hand Protection** Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.  
Recommendation: Rubber or plastic gloves.

**Personal Protective Equipment** Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

**Footwear** Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

**Body Protection** Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

**Form** Solid

**Appearance** White crystals, grayish-white powder or lumps.

**Odour** Odourless.

**Melting Point** 851 °C (anhydrous); 33 °C (decahydrate).

**Boiling Point** 1600 °C (anhydrous)

**Solubility in Water** Very soluble (anhydrous and decahydrate)

**Solubility in Organic Solvents** Soluble in glycerol. Insoluble in alcohol and acetone.

**Specific Gravity** 2.53 (anhydrous); 1.44 (decahydrate)

**pH** 11 - 12 (50 g/L, H<sub>2</sub>O, 25 °C)

**Flammability** Non combustible material.

**Molecular Weight** Anhydrous: 105.99  
Decahydrate: 286.14

## 10. Stability and reactivity

**Chemical Stability** Stable under normal use conditions. Avoid strong heating. Moisture sensitive.

**Conditions to Avoid** Exposure to moisture. Incompatibles.

**Incompatible Materials** Strong acids, water, phosphorus pentoxide, aluminium, fluorine, magnesium, ammoniacal silver nitrate, molten lithium, aluminium powder, alkaline earth metals in powder form, organic nitro compounds, alkali metals, nonmetallic oxides/heat.



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<b>Hazardous Decomposition Products</b>	Oxides of carbon and sodium oxide.
<b>Possibility of hazardous reactions</b>	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 aluminum is red hot.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat): 4090 mg/kg (anhydrous).
<b>Acute Toxicity - Inhalation</b>	LC50 (rat): 2.3 mg/L/2hr (anhydrous).
<b>Ingestion</b>	May be harmful if swallowed. May cause irritation of the mouth, throat and stomach. Prolonged or repeated exposure to sodium carbonate may be corrosive on the gastrointestinal tract with symptoms including severe abdominal pains, vomiting, diarrhea, possible circulatory collapse and death.
<b>Inhalation</b>	Inhalation of dust may be harmful and may cause irritation to the respiratory tract including the nose, throat and lungs. Symptoms may include coughing, sneezing, headache, laryngitis, shortness of breath, pulmonary edema, and difficulty breathing. Excessive contact is known to cause damage to the nasal septum.
<b>Skin</b>	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.
<b>Eye</b>	Dust or concentrated solutions may irritate or burn the eyes. Contact may be corrosive to the eyes, causing conjunctival edema and corneal destruction. Risk of serious injury increase if eyes are kept tightly closed. Other symptoms which may appear from absorption of the sodium carbonate into the bloodstream via the eyes.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.
<b>Chronic Effects</b>	Repeated or prolonged skin contact may cause chronic dermatitis and/or ulceration of the skin. Prolonged or repeated skin exposure may cause sensitization.
<b>Mutagenicity</b>	No evidence of mutagenic properties.

## 12. Ecological information

<b>Acute Toxicity - Fish</b>	LC50 (L. macrochirus): 300 mg/l/96 h.
<b>Acute Toxicity - Daphnia</b>	EC50 (Daphnia magna): 265 mg/l/48 h.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	S5

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	July 2009.
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<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous
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**Contact  
Person/Point**

Chemicals', 2011.  
 Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',  
 Standards Australia/Standards New Zealand, 2010.  
 Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.  
 Safe Work Australia, 'Hazardous Substances Information System, 2005'.  
 Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances  
 (2011)'.  
 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational  
 Environment [NOHSC:1003(1995) 3rd Edition]'.  
 Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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 information provided in this data sheet or by our technical representatives.

**Empirical Formula & Structural Formula** Anhydrous -  $\text{Na}_2\text{CO}_3$   
 Decahydrate -  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$   
 ...End Of MSDS...

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