

Infosafe No™ 1CH68 Issue Date : July 2021 RE-ISSUED by CHEMSUPP

Product Name **SODIUM CARBONATE**

Classified as hazardous

1. Identification

GHS Product Identifier	SODIUM CARBONATE	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
E-mail Address	www.chemsupply.com.au	
Recommended use of the chemical and restrictions on use	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.	
Other Names	Name	Product Code
	SODIUM CARBONATE Anhydrous AR	SA099
	SODIUM CARBONATE Anhydrous LR	SL099
	SODIUM CARBONATE Anhydrous Premium Grade	SS099
	SODIUM CARBONATE Decahydrate LR	SL042
	Soda ash, Washing soda, Dry alkali, Soda decahydrate	
	Sodium Carbonate (Conforms to BP, USP-NF)	SP099
	Sodium Carbonate Decahydrate COSMETIC GRADE	SP615

Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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

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



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Precautionary statement – Prevention	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.
Precautionary statement – Response	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. 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.
Precautionary statement – Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Precautionary statement – Disposal	P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Sodium carbonate	497-19-8	100 %
	Sodium carbonate decahydrate	6132-02-1	100 %
Other Information	Impurities: Sodium chloride, sodium sulfate, sodium bicarbonate, calcium carbonate and magnesium carbonate.		

4. First-aid measures

Inhalation	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.
Ingestion	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.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	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

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

6. Accidental release measures

Personal Precautions	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.
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Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
Environmental Precautions	Avoid release to the environment.

7. Handling and storage

Precautions for Safe Handling	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.
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	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable. These Workplace 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 workplace 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.
Appropriate engineering controls	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.
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	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
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 impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

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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 ₂ 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 conditons. 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.
Hazardous Decomposition Products	Oxides of carbon and sodium oxide.
Possibility of hazardous reactions	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.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 2800 mg/kg (anhydrous).
Acute Toxicity - Inhalation	LC50 (rat): 2,300 mg/l/2hr (anhydrous).
Ingestion	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.
Inhalation	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.
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.
Eye	Dust or concentrated solutions may irritate or burn the eyes. Contact may be corrosive to the eyes, causing conjunctival odema and corneal destruction. Risk of serious injury increase if eyes are kept tightly closed. Other symptoms

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Respiratory sensitisation	which may appear from absorption of the sodium carbonate into the bloodstream via the eyes. Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Specific target organ toxicity - Single Exposure Category 3 (respiratory tract irritation) H335 May cause respiratory irritation.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis and/or ulceration of the skin. Prolonged or repeated skin exposure may cause sensitization.
Serious eye damage/irritation	Eye Damage/Irritation: Category 1 H318 Causes serious eye damage.
Mutagenicity	Not classified based on available information.

12. Ecological information

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

13. Disposal considerations

Disposal Considerations	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

Transport Information	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

Regulatory Information	All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	S5

16. Other Information

Date of preparation or last revision of SDS	July 2009.
Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants

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Contact Person/Point in the Occupational Environment'.
Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula
Anhydrous - Na₂CO₃
Decahydrate - Na₂CO₃.10H₂O

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