



Infosafe No™	1CH68	Issue Date : July 2014	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM CARBONATE**

Classified as hazardous

1. Identification

GHS Product Identifier SODIUM CARBONATE

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001

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
	Soda ash, Washing soda, Dry alkali, Soda decahydrate	
	Sodium Carbonate Decahydrate COSMETIC GRADE	SP615
	Sodium Carbonate (Conforms to BP, USP-NF)	SP099
	SODIUM CARBONATE Anhydrous AR	SA099
	SODIUM CARBONATE Anhydrous LR	SL099
	SODIUM CARBONATE Anhydrous TG	ST099
	SODIUM CARBONATE Anhydrous Light TG	ST100
	SODIUM CARBONATE Decahydrate LR	SL042
	SODIUM CARBONATE PG	SL342

Other Information 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

GHS classification of the substance/mixture Eye Damage/Irritation: Category 2A

Signal Word (s) WARNING

Hazard Statement (s) H319 Causes serious eye irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients



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Chemical Characterization	Solid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Sodium carbonate decahydrate	6132-02-1	100 %	Xi	R36
	Sodium carbonate	497-19-8	100 %	Xi	R36
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. Get medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs give further water to achieve effective dilution. Seek immediate medical assistance.
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.
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.
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	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 ³ for dusts or mists when limits have not otherwise been established.
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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.
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 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): 4090 mg/kg (anhydrous).



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Acute Toxicity - Inhalation	LC50 (rat): 2.3 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 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.
Carcinogenicity	No evidence of carcinogenic properties.
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.
Mutagenicity	No evidence of mutagenic properties.

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.**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.**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**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 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 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)]'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
All information provided in this data sheet or by our technical representatives is compiled from the best



chem-supply

Safety Data Sheet

infosafe
CS: 1.7.2

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Empirical Formula & Structural Formula Anhydrous - Na₂CO₃
Decahydrate - Na₂CO₃.10H₂O
...End Of MSDS...

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