

Infosafe No™ 1CH9I	Issue Date : June 2021	RE-ISSUED by CHEMSUPP
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 Product Name **LITHIUM CARBONATE**

Classified as hazardous

1. Identification

GHS Product Identifier	LITHIUM 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	Lithium carbonate is used as a starting material for the production of other lithium compounds (e.g. lithium bromide, lithium chloride, lithium hydroxide, lithium oxide, and lithium aluminium silicates; as a flux in the production of specialty glasses, enamels, and ceramics; in the production of glazes on ceramics and electrical porcelain; as an additive to cement and concrete to control setting times; as an additive to molten salt baths for the electrolytic production of aluminum; as a catalyst; for coating of arc-welding electrodes; in nucleonics; in luminescent paints; varnishes and dyes and laboratory reagent.				
Other Names	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Name</u></th> <th style="text-align: left;"><u>Product Code</u></th> </tr> </thead> <tbody> <tr> <td>LITHIUM CARBONATE LR</td> <td>LL032</td> </tr> </tbody> </table>	<u>Name</u>	<u>Product Code</u>	LITHIUM CARBONATE LR	LL032
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LITHIUM CARBONATE LR	LL032				

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 2A Acute Toxicity - Oral: Category 4
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H319 Causes serious eye irritation.
Pictogram (s)	Exclamation mark



Precautionary statement – Prevention	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
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Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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Precautionary statement – Disposal

P330 Rinse mouth.
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.
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Lithium carbonate	554-13-2	100 %

4. First-aid measures

Inhalation Remove victim to fresh air. Keep warm and at rest. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Treat symptomatically and supportively. If rapid recovery does not occur, obtain medical attention.

Ingestion Rinse mouth thoroughly with water immediately. Do not induce vomiting. If rapid recovery does not occur, obtain medical attention

Skin
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. If persistent irritation occurs, obtain medical attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention

First Aid Facilities Maintain eyewash fountain and drench facilities in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods Small fire: Use dry chemical, CO2, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards arising from the chemical Lithium carbonate and its decomposition products do not burn or support combustion. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes. Closed containers may rupture violently when exposed to fire or excessive heat for sufficient time.

Decomposition Temp. 1200 °C.

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains, or confined areas. Water spray may be used to knock down or divert vapour clouds. Prevent dust cloud.

Personal Precautions 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 using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

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Conditions for safe storage, including any incompatibilities	Store away from oxidizing agents. Keep container tightly closed and in a cool, dry, well-ventilated place. Keep containers protected against physical damage. Isolate from incompatible substances. Observe all warnings and precautions listed for the product.
Corrosiveness	<p>Corrosivity to Metals: Lithium carbonate (1.3%; saturated solution) corrodes aluminium (type not specified) at a rate of between 0.5 and 1.27 mm/year at room temperature. Lithium carbonate solutions have also been reported to corrode zinc, but the corrosion rate is not known. Lithium carbonate is not corrosive to stainless steel (e.g. types 304 and 316), carbon steel (type not specified), nickel and its alloys, tantalum, titanium and zirconium at room temperature.</p> <p>Corrosivity to Non-Metals: Lithium carbonate attacks isophthalic acid polyester. It does not attack plastics, such as Teflon, polypropylene and bisphenol A-fumarate polyester.</p>

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.
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	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.
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.
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	Fine white powder.
Odour	Odourless.
Decomposition Temperature	1200 °C.

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Melting Point	720-723 °C.
Boiling Point	Decomposes at 1200 - 1300 °C.
Solubility in Water	Slightly to moderately soluble in water (8.4 g/L @ 20 °C). The solubility decreases with increasing temperature.
Solubility in Organic Solvents	Insoluble in ethanol, acetone and ammonia.
Specific Gravity	2.11
pH	11.2 (1% solution).
Vapour Pressure	Negligible.
Volatile Component	0%
Flammability	Non combustible material.
Explosion Properties	There is no evidence that lithium carbonate dust or powder can cause a dust explosion. Lithium carbonate is not included in lists of compounds that cause dust explosions.
Molecular Weight	73.89
Solubility in other solvents (kg/m3)	Soluble in dilute acids.
Other Information	Lithium carbonate is a strong base in water solution.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Incompatibles and heat.
Incompatible Materials	Strong oxidizing agents (e.g. nitric acid, perchloric acid, peroxides); strong acids (e.g. hydrochloric acid or sulfuric acid); fluorine; aluminium; zinc.
Hazardous Decomposition Products	Contact with acids will release carbon dioxide gas. May produce oxides of carbon and the contained metal.
Possibility of hazardous reactions	Strong oxidizing agents (e.g. nitric acid, perchloric acid, peroxides) - reaction may be violent. Strong acids (e.g. hydrochloric acid or sulfuric acid) - react violently; forms corresponding lithium salt with release of carbon dioxide gas.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 525 mg/kg
Ingestion	Harmful if swallowed. Ingestion is not a typical route of occupational exposure.
Inhalation	Inhalation may cause slight irritation to the upper respiratory tract. Symptoms may include coughing, sore throat and shortness of breath.
Skin	Skin contact may cause redness, itchiness and irritation.
Eye	Lithium carbonate dust or mist from concentrated solutions causes serious eye irritation, with redness and pain.
Respiratory sensitisation	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 listed in the IARC Monographs. Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.

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STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Lithium salts (lithium carbonate or lithium chloride) are orally administered therapeutically at doses of about 500-1800 mg/day for treatment of certain psychiatric conditions. There is considerable information available on the effects of therapeutic lithium administration on the skin, nervous system, kidneys and thyroid. In most cases the effects are reversible. The effects of lithium salts observed during therapeutic treatment protocols are not considered relevant to occupational exposures. Chronic exposure to higher levels may cause skin disorders, metallic taste, low body temperature or fever, ringing in the ears, stomach pain, frequent urination, involuntary defecation and/or urination, difficulty speaking, low blood pressure, headache, drunkenness, numbness, intolerance of the eyes to light, blindness, lung effects, brain damage, convulsions and shock may occur. May also cause tumours.
Mutagenicity	Not classified based on available information.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substances.
Environmental Protection	Do not allow to enter waters, waste water, or soil!

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 (ADG); by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.
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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	Not Scheduled

16. Other Information

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 in the Occupational Environment'.
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 knowledge available to us. However,

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**Empirical Formula
& Structural
Formula**

Li₂CO₃

...End Of MSDS...

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