

SAFETY DATA SHEET

LITHIUM CARBONATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	554-13-2
EC number:	209-062-5
1.2 SYNONYMS:	<ul style="list-style-type: none">• Lithium carbonate• Carbonic acid, lithium salt• Lithium salt of carbonic acid• Lithium(I) carbonate• Li_2CO_3

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4) Eye irritation (Category 2)
Hazard Pictograms:	
Signal Word:	Warning
Hazard statements:	H302: Harmful if swallowed. H319: Causes serious eye irritation.
Precautionary Statements:	P264: Wash skin thoroughly after handling. P280: Wear eye protection/ face protection. P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

	<p>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.</p>
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, and shortness of breath.
Ingestion:	can lead to symptoms such as nausea, vomiting, diarrhea, abdominal pain, and in severe cases, lithium toxicity, which may cause confusion, tremors, or seizures.
Skin Contact:	may cause irritation, redness, or dryness, and prolonged exposure can lead to more severe skin reactions.
Eye contact:	may cause irritation, redness, and pain, potentially leading to more serious eye damage with prolonged exposure.
Chronic Exposure:	can lead to kidney damage, thyroid dysfunction, and potential neurological effects such as tremors, cognitive impairment, or mood changes.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as kidney disease, thyroid disorders, or cardiovascular issues, potentially worsening symptoms or leading to complications.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 554-13-2 LITHIUM CARBONATE
Identification number(s):	EC number: 209-062-5

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute symptoms include gastrointestinal distress, respiratory irritation, and skin or eye irritation, while delayed effects can involve kidney damage, thyroid dysfunction, neurological issues, and mood changes.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	May release lithium oxide when heated to high temperature.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and

	foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required

Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Crystalline solid
Colour:	White
Odour:	Odourless
pH-value:	10.5
Melting point/Melting range:	720°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Non flammable
Ignition temperature:	Not applicable
Decomposition temperature:	700°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	2.11 g/cm ³
Relative density:	2.11
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with- water at 20 °C:	Readily soluble
Partition coefficient:(n- octanol/water)	No data available
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	No reaction under normal conditions.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can react with strong acids to release carbon dioxide.
10.4 Conditions to avoid	Excessive heat, moisture.

10.5 Incompatible materials	Strong oxidizing agents, strong acids.
10.6 Hazardous decomposition products	lithium oxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 525 mg/kg LD50 (Dermal, Rabbit): 3.000 mg/kg LC50 (Inhalation Rat): 2 mg/l (4 hr)
Skin corrosion/Irritation:	no data available
Serious eye damage/irritation:	Causes eye irritation.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	May cause serious respiratory irritation
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not Biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): 30.3 mg/l (96 hr) EC50(daphnia): 33 mg/l (48 hr) ErC50(algae): 400 mg/l (72 hr)
12.2 Persistence and degradability:	Not Biodegradable
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Mild Detergents, Sodium bicarbonate,

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3245
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	LITHIUM CARBONATE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	9
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling,

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