

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LITHIUM CARBONATE

CAS Number: 554-13-2

1. IDENTIFICATION:

Product Code : 91889, 96037

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity, Oral : Category 4

Eye irritation : Category 2

Labels elements :

Hazard symbol : 

Signal word : Warning

Hazard statement : Harmful if swallowed.
: Causes serious eye irritation.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

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disposal.

Other hazards which do not result in GHS classification : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Lithium Carbonate	554-13-2	NLT 98.0%	No

4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation : Move to fresh air.

Skin contact : Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses

Eye contact : Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed : The most important known symptoms and effects are described in the labelling.

Indication of immediate medical attention and special treatment needed : No data available

5. FIRE FIGHTING MEASURES:**General information****Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical : Nature of decomposition products not known. Not combustible.
: Ambient fire may liberate hazardous vapors

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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6. ACCIDENTAL RELEASE MEASURES:

- Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
- Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
- Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

- Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye, protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe the mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Workers	Skin contact	Acute systemic effects	100mg/kg BW/d
Workers	Inhalation	Acute systemic effects	7,02 mg/m3
Workers	Skin contact	Long-term systemic effects	26,61mg/kg BW/d
Workers	Inhalation	Long-term systemic effects	2,34 mg/m3
Consumers	Skin contact	Acute systemic effects	50mg/kg BW/d
Consumers	Inhalation	Acute systemic effects	3,03 mg/m3

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Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	0,8381 mg/l
Sea water	0,11 mg/l
Fresh water	1,05 mg/l
Sea sediment	0,41 mg/kg
Fresh water sediment	4,09 mg/kg
Sewage treatment plant	122,2 mg/l

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : White powder.

Odor : odorless

Solubility : Soluble in water.

Formula : Li_2CO_3

Molecular Weight : 73.89 g/mol

Density : 2.1 g/cm³ at 25°C

pH : 9.0- 11.0

% Volatiles by volume @ 21C (70F) : No data available

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Boiling Point : No data available
Melting Point : 618°C
Flash Point : No data available
Vapor Density (Air=1) : No data available
Vapor Pressure (mm Hg) : No data available
Evaporation Rate (BuAc=1) : No data available

10. STABILITY AND REACTIVITY:

Reactivity : No data available
Chemical stability : Material is stable under ambient conditions..
Possibility of hazardous reactions : Risk of ignition or formation of inflammable gases or vapours with: Fluorine, Alkaline earth metals.
Conditions to avoid : No data available
Incompatible materials : No data available
Hazardous decomposition products : In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rat): 525 mg/kg
Dermal Product : LD 50 (Rabbit): 3.000 mg/kg
Inhalation Product : LC 50 (Rat): 2 mg/l
Repeated dose toxicity Product : No data available.
Skin corrosion/irritation Product : No skin irritation
Serious eye damage/eye irritation Product : Irritating to eyes.
Respiratory or skin sensitization Product : Sensitisation test: - Guinea pig
Result: negative
Carcinogenicity Product : No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans : No data available.
US. National Toxicology Program (NTP) Report on Carcinogens : No data available.

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US. OSHA Specifically**Regulated Substances (29** : No data available.**CFR 1910.1001-1050****Germ cell mutagenicity****In vitro Product**

Test Type: In vitro mammalian cell gene mutation test

Metabolic activation: with and without metabolic activation

: Method: OECD Test Guideline 476

Result: negative

Reproductive toxicity**Product** : No data available**Specific target organ****toxicity - single exposure** : No data available**Product****Specific target organ****toxicity - repeated** : No data available**exposure Product****Aspiration hazard Product** : No data available**Other effects**

: No data available

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment****Fish Product**

: static test LC50 - Oncorhynchus mykiss (rainbow trout) - 30,3 mg/l - 96 h

Toxicity to daphnia and**other aquatic invertebrates**

: static test EC50 - Daphnia magna (Water flea) - 33 mg/l - 48 h

Toxicity to algae

: static test ErC50 - Desmodesmus subspicatus (green algae) - > 400 mg/l - 72 h

Toxicity to bacteria

: static test EC50 - activated sludge - 278 mg/l - 3 h

Chronic hazards to the aquatic environment**Fish Product**

: semi-static test NOEC - Danio rerio (zebra fish) - 15,28 mg/l - 21 d

Toxicity to daphnia and**other aquatic invertebrates**

: semi-static test EC50 - Daphnia magna (Water flea) - 1,70 mg/l - 21 d

Persistence and degradability**Biodegradation Product**

: The methods for determining the biological degradability are not applicable to inorganic substances.

BOD/COD ratio Product

: No data available.

Bioaccumulative potential**Bioconcentration factor****(BCF) Product**

: No data available

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Partition coefficient n-octanol / water (log Kow) : No data available.
Product
Mobility in soil : No data available
Other adverse effects : No data available

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	NA	Lithium Carbonate		Not dangerous goods	
IMDG	NA	Lithium Carbonate		Not dangerous goods	
IATA	NA	Lithium Carbonate		Not dangerous goods	

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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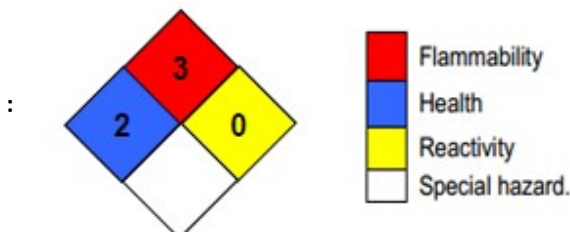
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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