

MATERIAL SAFETY DATA SHEET

USA version v1.03 Revision Date 2019-1-11

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1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifiers

Product name : Lithium carbonate

Product Number : L101679

CAS-No. : 554-13-2

Alias name : Carbonic acid,dilithium salt; Carbolithium Carbonic acid lithium salt

Brand : aladdin

1.2 Other identification methods

no data available

1.3 Relevant identified uses of the substance or mixture and uses advised against

仅供科研用途，不作为药物、家庭备用药或其它用途。

1.4 Details of the supplier of the safety data sheet

Company : Aladdin Industrial Corporation
16050 Kaplan Ave,
City of Industry,CA 91744
U.S.A

Telephone : 855-568-4500

Department : Sales Department

Fax : 626-333-7870

E-mail address : contactus@aladdin-e.com

1.5 Emergency telephone number

Emergency Phone # : 626 616 0223

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazards

Acute toxicity, Oral : Acute Tox. 4

Serious eye damage : Eye Irrit. 2

Environmental hazards

Acute aquatic toxicity : Aquatic Acute 1

2.2 GHS Label elements

Pictogram



GHS07:Exclamation Mark;

Signal word

【Warning】

Hazard statement(s)

H302

Harmful if swallowed

H319

Causes serious eye irritation

H402

Harmful to aquatic life

Precautionary statement(s)

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302

IF?ON?SKIN:

code

no data available

P402

Store in a dry place.

RS

Hazard symbol(s)

Xn

R-phrases(s)

R22;R36

S-phrases(s)

S26;S36/37

2.3 Other hazards - none

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : Li_2CO_3

Molecular Weight : 73.89 g/mol

Composition ingredients (Substance)		Concentration
Lithium carbonate		
CAS-No.	554-13-2	-
EC-No.	209-062-5	

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
no data available

4.3 Indication of immediate medical attention and special treatment needed
no data available

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Fire disaster Features

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Lithium oxides

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

no data available

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

no data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The maximum allowed concentration

Composition ingredients	CAS-No.	Value	Control parameters	standard
Lithium carbonate	554-13-2	PC-TWA	no data available	Permissible concentration-Time Weighted Average (China)
		no data available	no data available	no data available

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

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form : crystalline Colour : white
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	9.0 - 11.0 at 1 g/l
e) Melting/freezing point	618 °C (1,144 °F) - lit
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	2.11 g/cm ³
n) Solubility / Water solubility	10 g/l at 20 °C (68 °F)
o) Partition coefficient noctanol/water	no data available
p) Autoignition temperature(°C/°F)	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available

10 STABILITY AND REACTIVITY

- 10.1 Reactivity
no data available
- 10.2 Chemical stability
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions
no data available
- 10.4 Conditions to avoid
no data available
- 10.5 Incompatible materials
Incompatible with strong acids and oxidizing agents.
- 10.6 Hazardous decomposition products
Other decomposition products - no data available . Hazardous decomposition products formed under fire conditions. - Carbon oxides, Lithium oxides
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11 TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Acute toxicity
 - Oral LD50
 - LD50 Oral - rat - 525 mg/kg
 - Inhalation LC50
 - LC50 Inhalation - rat - 4 h - > 2.17 mg/l
 - subAcute toxicity
 - no data available
 - Irritation
 - no data available
 - Skin corrosion/Irritation
 - no data available
 - Serious eye damage/eye irritation
 - no data available
 - AspirationHazard
 - no data available
 - Germ cell mutagenicity
 - no data available
 - Carcinogenicity, IARC
 - no data available
 - Reproductive toxicity
 - no data available
 - Specific target organ toxicity - single exposure
 - no data available

Specific target organ toxicity - repeated exposure

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

Nausea, Anorexia., Large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion., Vomiting, Cyanosis and t-wave inversion have occurred in the breast-fed infants of women receiving lithium carbonate therapy.

Additional Information

RTECS: OJ5800000

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 30.3 mg/l - 96 h

Toxicity to daphnia
and other aquatic
invertebrates

EC50 - Daphnia magna (Water flea) - 33.2 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Additional Information :

no data available

14 TRANSPORT INFORMATION

14.1 UN-Number

ADR/RID : no data available

IMDG : no data available

IATA : no data available

14.2 UN proper shipping name

ADR/RID : no data available

IMDG : no data available

IATA : no data available

14.3 Transport hazard class(es)

ADR/RID : no data available

IMDG : no data available

IATA : no data available

14.4 Packaging group

ADR/RID : no data available

IMDG : no data available

IATA : no data available

14.5 Environmental hazards

ADR/RID :no data available

IMDG Marine pollutant :no data available

IATA : no data available

14.6 Special precautions for users

no data available

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or

15.1 mixture

Chemical Safety Assessment

OSHA Hazards Target Organ Effect, Harmful by ingestion., Irritant SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Lithium carbonate CAS-No. 554-13-2 Revision Date 2007-07-01 SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Lithium carbonate CAS-No. 554-13-2 Revision Date 2007-07-01 Pennsylvania Right To Know Components Lithium carbonate CAS-No. 554-13-2 Revision Date 2007-07-01 New Jersey Right To Know Components Lithium carbonate CAS-No. 554-13-2 Revision Date 2007-07-01 California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Lithium carbonate CAS-No. 554-13-2 Revision Date 2007-09-28

16 OTHER INFORMATION

Further information

Copyright : no data available

no data available
