

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 1: Identification

### Product identifier

Trade name/designation:	Lithium carbonate
Product No.:	2362
Synonyms:	none/none

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

<b>Recommended Use</b>	For Further Manufacturing Use Only
<b>Uses advised against</b>	Not for Human or Animal Drug Use

### Details of the supplier of the safety data sheet

#### Supplier

##### Avantor Performance Materials, LLC.

Street	3477 Corporate Parkway
Postal code/City	Center Valley, PA 18034
Telephone	855-282-6867
Telefax:	610-573-2610

#### Emergency phone number

Telephone	+1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA and Canada)
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#### Preparation Information

Product Information Compliance

E-mail	SDS@avantorsciences.com
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## SECTION 2: Hazard identification

### Classification of the substance or mixture

#### Label elements

##### Health hazards

Acute toxicity, category 4, oral  
Eye irritation, category 2

##### Hazard pictograms



##### Signal word: Warning

Harmful if swallowed.  
Causes serious eye irritation.

##### Prevention

Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

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

##### Hazards not otherwise classified (HNOC)

none/none

## SECTION 3: Composition / information on ingredients

### Substances

Substance name	Lithium carbonate
Molecular formula	Li <sub>2</sub> CO <sub>3</sub>
Molecular weight	73.89 g/mol
CAS No.	554-13-2

## SECTION 4: First aid measures

### General information

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

**In case of inhalation**

Call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

**In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

**After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

**In case of ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

**Most important symptoms/effects, acute and delayed**

**Symptoms** no data available

**Hazards** no data available

**Indication of any immediate medical attention and special treatment needed**

no data available

**SECTION 5: Fire fighting measures****Extinguishing media****Suitable extinguishing media**

The product itself does not burn.  
Co-ordinate fire-fighting measures to the fire surroundings.

**Extinguishing media which must not be used for safety reasons**

no restriction

**Specific hazards arising from the chemical**

In case of fire may be liberated:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**Advice for firefighters**

DO NOT fight fire when fire reaches explosives.  
Protective equipment and precautions for firefighters  
Wear a self-contained breathing apparatus and chemical protective clothing.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up**

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

**Additional information**

Clear spills immediately.

## SECTION 7: Handling and storage

### Precautions for safe handling

Avoid:

Inhalation

Avoid contact with eyes and skin.

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Usual measures for fire prevention.

### Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Ambient temperature

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

## SECTION 8: Exposure controls/personal protection

### Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### Engineering controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

##### *Eye/face protection*

Eye glasses with side protection

##### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

##### By short-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time::	> 480 min

##### By long-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,38 mm
Breakthrough time::	> 480 min

##### *Respiratory protection*

Respiratory protection necessary at: aerosol or mist formation If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

#### Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### Environmental exposure controls

no data available

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

- |                      |                   |
|----------------------|-------------------|
| (a) Appearance       |                   |
| Physical state:      | solid             |
| Color:               | white             |
| (b) Odour:           | odourless         |
| (c) Odour threshold: | no data available |

### Safety relevant basic data

- |  |  |
|--|--|
| (d) pH:                                      | 10-11 (5 g/l; H <sub>2</sub> O; 20 °C) |
| (e) Melting point/freezing point:            | 722 °C                                 |
| (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):               | not applicable                         |
| (j) Flammability or explosive limits         |  |
| Lower explosion limit:                       | no data available                      |
| Upper explosion limit:                       | no data available                      |
| (k) Vapour pressure:                         | no data available                      |
| (l) Vapour density:                          | no data available                      |
| (m) Relative density:                        | 2.1 g/cm <sup>3</sup> (20 °C)          |
| (n) Solubility(ies)                          |  |
| Water solubility:                            | 13 g/l (20 °C)                         |
| Soluble (g/L) in Ethanol:                    | no data available                      |
| (o) Partition coefficient: n-octanol/water:  | no data available                      |
| (p) Auto-ignition temperature:               | no data available                      |
| (q) Decomposition temperature:               | 1310 °C (1013 hPa)                     |
| (r) Viscosity                                |  |
| Kinematic viscosity:                         | no data available                      |
| Dynamic viscosity:                           | no data available                      |
| (s) Explosive properties:                    | not applicable                         |
| (t) Oxidising properties:                    | not applicable                         |

### Other information

- |                        |                       |
|------------------------|-----------------------|
| Bulk density:          | no data available     |
| Refraction index:      | 1.428 (589 nm; 25 °C) |
| Dissociation constant: | no data available     |
| Surface tension:       | no data available     |
| Henry's Law Constant:  | no data available     |

## SECTION 10: Stability and reactivity

### Reactivity

no data available

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

no data available

### Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute effects

*Acute oral toxicity:*

LD50: > 525 mg/kg - Rat - (IUCLID)

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

LC50: > 2.17 mg/l - Rat - (IUCLID)

#### Irritant and corrosive effects

*Primary irritation to the skin:*

not applicable

*Irritation to eyes:*

Causes serious eye irritation.

*Irritation to respiratory tract:*

not applicable

#### Respiratory or skin sensitization

In case of skin contact: not sensitising

In case of inhalation: not sensitising

#### STOT-single exposure

not applicable

#### STOT-repeated exposure

not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

<b>SECTION 12: Ecological information</b>
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**Ecotoxicity****Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

Partition coefficient: n-octanol/water: no data available

**Mobility in soil:**

no data available

**Results of PBT/vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**Other adverse effects**

no data available

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

#### Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (DOT)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

#### SARA 313 Components

Listed

#### Massachusetts Right To Know Components

Listed

#### Pennsylvania Right To Know Components

Not listed.

#### New Jersey Right To Know Components

Listed

#### California Prop. 65 Components

#### WARNING:

This product can expose you to chemicals including Lithium carbonate which is known to the State of California to cause birth defects or other reproductive harm.  
For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
DOT - Department of Transportation  
IARC - International Agency for Research on Cancer  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
TDG - Transport of Dangerous Goods  
TLV - Threshold Limit Value  
vPvB - very Persistent, very Bioaccumulative

### Additional information

Indication of changes: none/none

### Disclaimer

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