



## Safety Data Sheet

According to Regulation (EC) 1907/2006



1391 Lithium Carbonate

# Identification of the substance/preparation and of the company or firm

## 1.1 Identification of the substance or preparation

Name:

Lithium Carbonate

## 1.2 Synonym:

## 1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

## 1.4 Identification of the company or firm:

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# Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Acute Tox. 4

## Hazard Pictograms



## Signal word

Warning

## Hazard statements

H302 Harmful if swallowed.

## Precautionary statements

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

**Classification (67/548/CEE or 1999/45/CE).**

**Xn Harmful**R22

For the full text of the R-phrases mentioned in this section, see section 16.

# Component Composition/Information

Name: Lithium Carbonate

Formula:  $\text{Li}_2\text{CO}_3$  M.= 73,89 CAS [554-13-2]

EC number (EINECS): 209-062-5

## First aid

### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

### 4.2 Inhaling:

Take the person out into the fresh air.

### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

**4.4 Eyes:**

Wash with plenty of water, keeping eyelids open.

**4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek medical assistance.

## Fire-fighting means

**5.1 Suitable fire-extinguishing means:**

As appropriate to the environment.

**5.2 Fire-fighting means which must NOT be used:****5.3 Special risks:**

Incombustible.

**5.4 Protective equipment:**

## Measures to be taken in the event of accidental spillage

**6.1 Individual precautions:**

Do not inhale the dust.

**6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

**6.3 Methods for collection/cleaning:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

## Handling and storage

**7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. Dry atmosphere. Atmospheric temperature.

## Staff exposure/protection controls

**8.1 Technical protective measures:****8.2 Exposure limit control:**

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour: Odourless.

pH: 10 - 11

Melting point/freezing point: 720 °C

Initial boiling point and boiling range:

Flash point:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:

Relative density: 2,11

Solubility: 13 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

## Stability and reactivity

**10.1 Conditions which should be avoided:****10.2 Matter which should be avoided:**

Fluorine. Alkali-earth metals (powder). (There is a risk of explosion).

### 10.3 Hazardous decomposition products:

### 10.4 Complementary information:

## Toxicological information

- **Acute toxicity:**

LD50 oral rat : 525 mg/kg

LD50 ipr mus : 236 mg/kg

- **Dangerous effects for health:**

If inhaled: Irritations to the mucosae coughing breathing difficulties Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause vomiting intestinal disorders If it is absorbed in large quantities: effects on the central nervous system dizziness sight disorders cardiovascular failure Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## Environmental information

### 12.1 Mobility:

### 12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

Fish (Li) 100 mg/l

Classification: Highly toxic

Crustaceans (Daphnia magna) (Li) 16 mg/l

Classification: Extr. toxic

Plants (Li) 0,2 mg/l

Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

12.2.3 - Observations:

Acute ecotoxicity in the dumping area.

**12.3 Degradability:**

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

**12.4 Accumulation:**

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

**12.5 Other possible effects on the environment:**

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

## Considerations regarding elimination

**13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

**13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

## Information concerning transport

Overland (ADR):

By sea (IMDG):

By air (ICAI-IATA):

# Regulatory information

## Other information

### Other precautionary statements

### Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s):	<b>R22</b> Harmful if swallowed.
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S-phrases(s):	<b>S22</b> Do not breathe dust.
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The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

Date published: 3.11.10

Review number and date: 3 3.11.10