



# SAFETY DATA SHEET

**MATERION**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation** Lithium Carbonate (Li<sub>2</sub>CO<sub>3</sub>)  
**Version No.** 01  
**Issue date** 04-May-2015  
**CAS #** 554-13-2  
**SDS Number** L-MSDS0067  
**Manufacturer information** Materion Advanced Chemicals Inc.  
407 N. 13th Street  
1316 W. St. Paul Avenue  
Milwaukee, WI 53233  
  
United States  
advancedmaterials@materion.com  
414.212.0257

## 2. HAZARDS IDENTIFICATION

**Classification** Xn;R20/22, N;R51/53  
**Physical hazards** Not classified as a physical hazard.  
**Health hazards** Harmful by inhalation and if swallowed.  
**Environmental hazards** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
Lithium Carbonate	554-13-2	100	209-062-5	Xn;R20/22, N;R51/53

## 4. FIRST-AID MEASURES

## 5. FIRE-FIGHTING MEASURES

## 6. ACCIDENTAL RELEASE MEASURES

## 7. HANDLING AND STORAGE

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits** No exposure limits noted for ingredient(s).  
**Biological limit values** No biological exposure limits noted for the ingredient(s).  
**Recommended monitoring procedures**  
**Additional exposure data** Not available.  
**Personal protective equipment**  
**Skin and body protection** Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**  
**Physical state** Solid.  
**Form** Not available.  
**Colour** Not available.  
**Odour** Not applicable.  
**Odour threshold** Not available.  
**pH** Not available.  
**Boiling point** 1300 °C (2372 °F)  
**Flash point** Not available.  
**Flammability limits in air, upper, % by volume** Not available.

<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapour pressure</b>	< 0,0000001 kPa at 25 °C
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Melting point/freezing point</b>	723 °C (1333,4 °F)
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	Not available.
<b>Molecular weight</b>	73,89 g/mol
<b>Molecular formula</b>	C-H <sub>2</sub> -O <sub>3</sub> ,2Li
<b>Other data</b>	
<b>Density</b>	2,11 g/cm <sup>3</sup> estimated
<b>Specific gravity</b>	2,11

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Not available.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

Product	Species	Test results
Lithium Carbonate (CAS 554-13-2)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	> 2,17 mg/l, 4 Hours
<b>Oral</b>		
LD50	Dog	500 mg/kg
	Mouse	531 mg/kg
	Rat	525 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

Product	Species	Test results
Lithium Carbonate (CAS 554-13-2)		
<b>Aquatic</b>		
Fish	LC50	Mummichog (Fundulus heteroclitus) 8,1 mg/l, 96 hours

## 13. DISPOSAL CONSIDERATIONS

## 14. TRANSPORT INFORMATION

### ADR

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. REGULATORY INFORMATION

### Labeling

**Contains** Lithium Carbonate

**EC number** 209-062-5

### Symbol(s)



Harmful



Dangerous for the environment

### R-phrases

R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases

S13 Keep away from food, drink and animal feeding stuffs.  
S20 When using do not eat or drink.  
S57 Use appropriate container to avoid environmental contamination.  
S60 This material and its container must be disposed of as hazardous waste.  
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

## 16. OTHER INFORMATION

### Wording of the R-phrases in sections 2 and 3

R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.