



SAFETY DATA SHEET

MATERION

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

Identification of the substance/preparation Lithium Carbonate (Li₂CO₃)
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
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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.

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

10. STABILITY AND REACTIVITY

Conditions to avoid	Not available.
Hazardous decomposition products	Not available.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Species	Test results
Lithium Carbonate (CAS 554-13-2)		
Acute		
Inhalation		
LC50	Rat	> 2,17 mg/l, 4 Hours
Oral		
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)		
Aquatic		
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.