TECHNICAL DATA SHEET

Date of Issue: 2018/02/15

Lithium Carbonate, technical grade, min. 99.0 %, milled < 40 µm

CAS-No. 554-13-2

EC-No. 209-062-5

REACH No. 01-2119516034-53

Molecular Formula Li₂CO₃

Product Number 401125

APPLICATION Additive for quick-setting cements. Raw material for the manufacture of cathodes in

Lithium ion batteries.

SPECIFICATION

| | Specification | Method of Ananlysis |
|--------------|---------------|-----------------------|
| Li2CO3*) | min. 99.0 % | acidimetric titration |
| H2O (200 °C) | max. 0.5 % | gravimetry |

^{*)} Determination by titration with potentiometric endpoint indication

PHYSICAL PROPERTIES

Appearance fine powder to granular

Color colorless

Melting point/ range 722 °C Method: OECD Test Guideline 102

Boiling point/boiling

range

ca. 1,310 °C

Density 2.11 g/cm3 at 20 °C

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



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Bulk density ca. 430 kg/m3 (401260 - BG <40µm)

ca. 430 kg/m3 (401303 - TG Industrial Grade)

ca. 500 kg/m3 (401223 - TG Fines)

ca. 890 kg/m3 (401203 - TG Compacted)

ca. 940 kg/m3 (401211 - TG Granules)

ca. 950 kg/m3 (401202 - TG Coarse Crystal)

Water solubility 8.4 g/L at 20 °C Method: OECD Test Guideline 105

Molecular weight 73.89 g/mol

Grain Size Value typical Specification

X(10) 1 μm X(50) 4 μm X(90) 10 μm

Particle size $< 40 \mu m$ 100 %

Additional Physical

Properties

Specific weight: 2.11 g/ccm

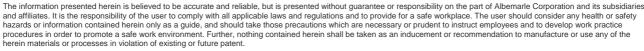
HANDLING & STORAGE

Handling No special precautions necessary.

TRANSPORT & PACKAGING

ADR

Not regulated as a dangerous good





Product Number: 401125 Date of Issue: 2018/02/15

Hazard pictograms



Signal Word Warning

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary

in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

25 kg-bags on pallets of 1,000 kg, 50 kg fiber drums with polyethylene lining or 500 kg big bags.

OTHER INFORMATION

Further Related Documents

Safety Data Sheet

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