TECHNICAL DATA SHEET

Date of Issue: 2025/02/18

Lithium Chloride, technical grade, granules

CAS-No.	7447-41-8
EC-No.	231-212-3
REACH No.	01-2119560574-35-0001
Molecular formula	LiCl
Product number	10000624, 10001353, 10001354, 10001355, 10001356, 10001357, 10001358

APPLICATION

Fluxes for welding and soldering techniques; salt bath for heat-treatment by low temperature and for dip brazing; raw material for other lithium compounds; tracer for chemical products (denaturation of wine etc.); absorption and desinfection reagent (lithium chloride solution) for absorbers.

SPECIFICATION

LiCl	min. 99.2%
Na	max. 0.35%
H2O (400°C)	max. 0.5%

PHYSICAL PROPERTIES

Appearance	Crystalline powder
Color	colorless

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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle.com.

Please contact us at www.albemarle.com/contact with questions.

Albemarle®

Melting point/range	609 °C at 1,013 hPa Method: OECD Test Guideline 102
Boiling point/boiling range	1,360 °C at 1,013 hPa
Density	2.1 g/cm3 at 20 °C
Bulk density	ca. 1,000 kg/m3
Water solubility	569 g/l at 20 °C Method: OECD Test Guideline 105
Molecular weight	42.39 g/mol
Grain Size	90 % between 0.1 and 1 mm
Additional Physical Properties	Specific gravity: 2.068 g/ccm Solution enthalpy: + 8,370 cal (15 °C)

HANDLING & STORAGE

Storage	Lithium chloride is hygroscopic and must therefore be stored under exclusion of humidity (e.g. in tightly closed drums or other containers).

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

Hazard pictograms

Signal Word	Warning
H&P Phrases	See Safety Data Sheet

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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle.com.

Please contact us at www.albemarle.com/contact with questions.

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

50 kg polyethylene bags in clamping ring drums
Additional packaging options available

OTHER INFORMATION

Further Related Documents	Safety Data Sheet

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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle.com.

Please contact us at www.albemarle.com/contact with questions.

Albemarle®