

## 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,<br>10001355, 10001356, 10001357,<br>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 disinfection reagent (lithium chloride solution) for absorbers.

### SPECIFICATION

|                          |            |
|--------------------------|------------|
| LiCl                     | min. 99.2% |
| Na                       | max. 0.35% |
| H <sub>2</sub> O (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](http://www.albemarle.com).

Please contact us at [www.albemarle.com/contact](http://www.albemarle.com/contact) with questions.



|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| 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/cm <sup>3</sup> at 20 °C                                       |
| Bulk density                   | ca. 1,000 kg/m <sup>3</sup>                                          |
| 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) |

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## 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). |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|

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## TRANSPORT & PACKAGING

ADR  
Not regulated as a dangerous good

Hazard pictograms



|             |                       |
|-------------|-----------------------|
| Signal Word | Warning               |
| H&P Phrases | See Safety Data Sheet |

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**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

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**OTHER INFORMATION**

**Further Related Documents**                      Safety Data Sheet

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