TECHNICAL DATA SHEET

Date of Issue: 2026/06/22

Lithium Metal, battery grade

CAS-No.	7439-93-2
EC-No.	231-102-5
REACH No.	01-2119966143-38-0001 01-2119966143-38-0002
Molecular formula	Li
Product number	10000229, 10000232, 10000233, 10000170, 10000192, 10000195

APPLICATION

Anode material for lithium batteries. Alloy element (with Mg, Al, Pb, Si).

SPECIFICATION

Li	> 99.90 %
Na	max. 200 ppm
K	max. 100 ppm
Ca	max. 200 ppm
N	max. 300 ppm

These values are typical. If you have any specific need, please give us a call.

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®

PHYSICAL PROPERTIES

Appearance	Solid form
Color	metallic
Melting point/ range	180.5 °C at 1,013 hPa (Information taken from reference works and the literature.)
Viscosity, dynamic	0.57 mPa.s at 200 °C
Boiling point/boiling range	ca. 1,342 °C at 1,013 hPa (Information taken from reference works and the literature.)
Density	0.534 g/cm3 at 20 °C (Information taken from reference works and the literature.)
Bulk density	ca. 300 kg/m3
Water solubility	(Not applicable)
Molecular weight	6.94 g/mol
Additional Physical Properties	Lithium Ingots, Rods, Foils, and Alloys offered (list upon request).

HANDLING & STORAGE

Storage	Store and transport under argon or mineral oil. Keep containers tightly closed in a dry, cool, and well ventilated place. Never allow product to get in contact with water during storage. See MSDS for further information.

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.

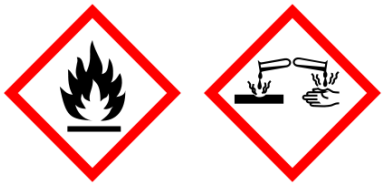
Albemarle®

TRANSPORT & PACKAGING

UN number 1415

ADR	Class: 4.3	PG: I	Label: 4.3
RID	Class: 4.3	PG: I	Label: 4.3
IMDG	Class: 4.3	PG: I	Label: 4.3
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 487
IATA_P	Class: 4.3	PG: I	

Hazard pictograms



Signal Word Danger

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

Under argon in hermetically sealed cans or heat-sealed in tri-laminated pouches overpacked in fiberboard cartons or DOT-specified steel drums.

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®