

TECHNICAL DATA SHEET

Date of Issue: 2018/02/20

Lithium Hydroxide Monohydrate, technical grade, free flowing, min. 56.5 %

CAS-No.	1310-66-3
EC-No.	215-183-4
REACH No.	01-2119560576-31
Molecular Formula	LiOH•H ₂ O
Product Number	401286, 401288

APPLICATION Manufacture of lubricating greases. Electrolyte component in alkaline storage batteries. Starting material for other lithium compounds. Chemical agent, for example for esterifications.

PURITY technical grade

SPECIFICATION

	Specification	Method of Analysis
LiOH	min. 56.5 %	acidimetric titration
Na + K	max. 0.07 %	FES
Fe ₂ O ₃	max. 0.001 %	ICP
CO ₂	max. 0.30 %	acidimetric titration
Cl	max. 0.03 %	argentometric titration
SO ₄	max. 0.05 %	IC
acid insolubles	max. 0.015 %	gravimetry
Ca as CaO	max. 0.03 %	ICP

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



PHYSICAL PROPERTIES

Appearance	crystalline
Color	white to yellowish
Melting point/ range	424 °C at 1,013 hPa Method: OECD Test Guideline 102
Density	ca. 1.51 g/cm ³ at 20 °C
Bulk density	ca. 800 kg/m ³
Water solubility	200 g/L at 20 °C Method: OECD Test Guideline 105
Molecular weight	41.96 g/mol
Grain Size	approx. 0.1 - 1.0 mm
Additional Physical Properties	The solution is highly alkaline. Solution enthalpy in water: 3.6 kJ/mol

HANDLING & STORAGE

Handling	Observe official safety regulations (see also: "Transport regulations").
Storage	Can be stored indefinitely under exclusion of carbon dioxide (from air) and humidity.

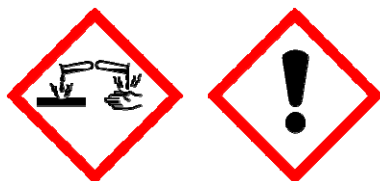
TRANSPORT & PACKAGING

UN number 2680

ADR	Class: 8	PG: II	Label: 8
RID	Class: 8	PG: II	Label: 8
IMDG	Class: 8	PG: II	Label: 8
IATA_C	Class: 8	PG: II	Packing instruction (cargo aircraft): 863
IATA_P	Class: 8	PG: II	Packing instruction (passenger aircraft): 859

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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

Clamping ring drums with polyethylene liner of 100 kg capacity, 25 kg bags (1 mt per pallet)

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
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