

TECHNICAL DATA SHEET

Date of Issue: 2018/07/06

Lithium Hydroxide Monohydrate, standard, typ. 55 %

CAS-No.	1310-66-3
EC-No.	215-183-4
REACH No.	01-2119560576-31
Molecular Formula	LiOH·H ₂ O
Product Number	401106

APPLICATION

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

SPECIFICATION

	Specification	Method of Analysis
LiOH	min. 55.0 %	acidimetric titration
CO ₂	max. 0.5 %	acidimetric titration

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

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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

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.

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Packaging

Clamping ring drums with polyethylene liner of 100 kg capacity, 4 x 25 kg PE bags in 100 kg drums, 5 x 20 kg PE bags in 100 kg drums, 25kg bags on 500kg pallets

OTHER INFORMATION

Further Related Documents

Safety Data Sheet

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