TECHNICAL DATA SHEET

Date of Issue: 2016/12/14

Lithium Hydride, powder < 100 μm

CAS-No. 7580-67-8

EC-No. 231-484-3

REACH No. 01-2119918290-45

Molecular Formula LiH

Product Number 401613

APPLICATION Reducing agent, high density hydrogen source, production of high purity

monosilanes.

SPECIFICATION

LiH	min. 97 %	
Na	max. 0.9 %	
K	max. 0.05 %	

PHYSICAL PROPERTIES

Appearance powder

Color white to gray

Melting point/ range 688 °C

Density 0.78 g/cm3 at 20 °C

Bulk density 290 - 400 kg/m3

Water solubility (Not applicable)

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.



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Molecular weight 7.95 g/mol

Thermal Stability Decomposition: abt. 800 °C

Additional Physical

Properties

Theoretical hydrogen content: 12.7 %, equivalent to 2.82 litres of hydrogen per g

evolved in hydrolysis

Heat of fusion: approx. 2.5 kJ/g

H2 equilibrium pressure:

500 °C: 0.09 mbar

850 °C: approx. 1,010 mbar

HANDLING & STORAGE

Handling Protective clothing should always be used when handling the product. Pay further

attention to the official safety regulations (see also: "Transport Regulations" and

"Marking").

Storage Keep container tightly closed and dry. Keep away from heat. Retest date: six

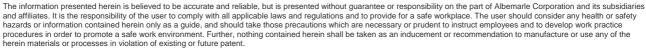
months. Pay attention to official safety regulations (see also: 'Transport

Regulations').

TRANSPORT & PACKAGING

UN number 1414

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	





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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

Inner Packing: Solvent soluble SecuBags® from 10 g to 2,000 g in cans and 5 kg SecuBags®.

Outer Packing: Appropriate clamping ring steel drums.

OTHER INFORMATION

Further Related

Safety Data Sheet

Documents

Our brochure(s) Metal Hydrides

