

TECHNICAL DATA SHEET

Date of Issue: 2016/12/12

Potassium Borohydride, powder

CAS-No. 13762-51-1

EC-No. 237-360-5

Molecular Formula KBH_4

Product Number 401666

APPLICATION

Chemoselective reduction of aldehydes, ketones, acid chlorides and azides. Alkenes, carboxylics, acids, amides, imides, cyclic ethers, aromatic nitro compounds, and halogenated compounds are usually inert.

SPECIFICATION

Potassium Borohydride: min. 98 %

PHYSICAL PROPERTIES

Appearance	powder
Color	white
Melting point/ range	500 °C (Decomposes before melting.)
Density	1.17 g/cm ³ at 20 °C
Bulk density	400 kg/m ³
Water solubility	193 g/L at 25 °C (Reacts with water.)
Molecular weight	53.94 g/mol

HANDLING & STORAGE

Handling	Protective clothing should always be used when handling the product. Please note that Potassium Borohydride solution is strongly alkaline and corrosive. Pay attention to official safety regulations (see also: 'Transport regulations' and 'Marking').
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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.



Storage Under exclusion of air and humidity Potassium Borohydride has unlimited shelf life. Keep the containers in a cool, dry and well ventilated place away from water and other chemical active materials. Recommended storage temperature 15 - 25 °C.

TRANSPORT & PACKAGING

UN number 1870

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

Inner Packing: Standard packing is 10 kg Polyethylene (PE) bags. PE bags from 10 to 2,000 grams in cans are available on request.

Outer packing: Appropriate clamping ring steel drums.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

Our brochure(s) Metal Hydrides

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