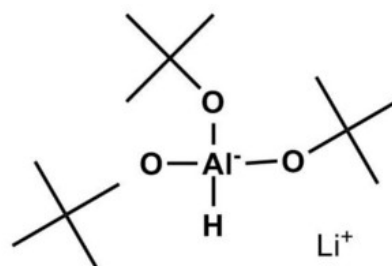


TECHNICAL DATA SHEET

Date of Issue: 2016/09/26

Lithium-tri-(tert-butoxy)-Aluminum Hydride, powder



CAS-No.	17476-04-9
EC-No.	241-490-8
Molecular Formula	$C_{12}H_{28}AlLiO_3$
Product Number	401620

APPLICATION

Reduction of acid chlorides to aldehydes. Stereoselective reductions of carbocyclic and steroid ketones. Reduction of aldehydes and ketones, leaving unaffected halogen-, ester-, lactone, amide-, nitrile-, nitro- and/or epoxy-groups as well as carbon and carbon multiple bonds.

SPECIFICATION

LTTBA: 98 - 115 %

METHOD OF ANALYSIS

Gasvolumetric determination. Detailed description available on request.

PHYSICAL PROPERTIES

Appearance	powder
Color	white to gray
Decomposition temperature	ca. 319 °C (Decomposes before melting.)
Density	0.986 g/cm ³ at 23 °C
Bulk density	ca. 500 kg/m ³
Water solubility	(Not applicable)
Molecular weight	254.28 g/mol

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.

HANDLING & STORAGE

Handling

Keep material in a well ventilated place under argon or nitrogen. Spilled material should be covered by dry limestone powder or extinguishers containing powder based on sodium chloride (e.g. Totalit M®). Pay attention to official safety regulations (see also 'Transport & Packaging' and 'Safety Data Sheet').

Storage

Under exclusion air and humidity, the powder is fairly stable. However within a certain period of time a slight grey discolouration will be observed. As decomposition accelerates with temperature, we recommend not to exceed a storage temperature of 20 °C and to use material within a period of six months after receipt.

TRANSPORT & PACKAGING

UN number 1409

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.

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Packaging

Inner Packing: Solvent soluble SecuBags® or PE bags from 10 g to 2,000 g in cans; 5 kg SecuBags® or PE bags; 10 kg PE bags.

Outer Packing: Appropriate clamping ring steel drums.

OTHER INFORMATION

Further Related Documents

Safety Data Sheet

Our brochure(s)

Metal Hydrides

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