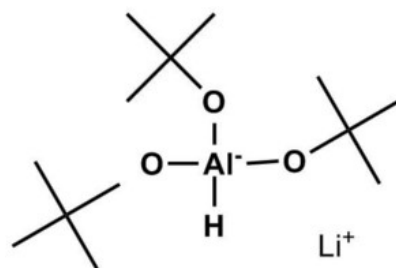


TECHNICAL DATA SHEET

Date of Issue: 2016/12/07

Lithium-tri-(tert-butoxy)-Aluminum Hydride, typ. 30 % solution in THF (typ. 1.1 M)



CAS-No.	17476-04-9
EC-No.	241-490-8
Molecular Formula	$C_{12}H_{28}AlLiO_3$
Product Number	401624

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.

FURTHER INGREDIENTS

Tetrahydrofuran	
CAS-No.	109-99-9
EC-No.	203-726-8

SPECIFICATION

LTTBA: 29 - 32 %

METHOD OF ANALYSIS

Gasvolumetric determination. Detailed description available on request.

PHYSICAL PROPERTIES

Appearance	clear to turbid liquid
Color	light gray

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.

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Flash point -21.2 °C (Tetrahydrofuran)
Boiling point/boiling range 66 °C (Tetrahydrofuran)
Density ca. 0.9 g/cm³ at 20 °C
Water solubility (Not applicable)
Molecular weight 254.28 g/mol

Additional Physical Properties Solvent: Tetrahydrofuran

HANDLING & STORAGE

Handling Dilute spilled solution with paraffin oil (but never with halogenated hydrocarbons, alcohols, ketones, esters) and cover with dry sand, ground limestone or cement. The soaked material should then be taken to a safe place and be decomposed from a safe distance by a jet of water. Pay attention to official safety regulations (see also "Transport Regulations" and "Marking").

Storage Under exclusion air and humidity, the solutions are fairly stable. However even at room temperature slight decomposition with evolution of hydrogen is observed after prolonged storage.

TRANSPORT & PACKAGING

UN number 3399

ADR	Class: 4.3	PG: I	Label: 4.3 (3)
RID	Class: 4.3	PG: I	Label: 4.3 (3)
IMDG	Class: 4.3	PG: I	Label: 4.3 (3)
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 494
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

Glass bottles of 100, 250, 500 and 1,000 ml.

Steel bottles and containers with nominal volumes of 5, 40, 125 or 450 l. For safety reasons these are filled to a maximum of 90 %.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
Our brochure(s)	Metal Hydrides

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