

# TECHNICAL DATA SHEET

Date of Issue: 2017/04/11

## Lithium Triethylborohydride, typ. 12 % solution in THF (typ. 1.0 M)

CAS-No.	22560-16-3
EC-No.	245-076-8
Molecular Formula	$\text{Li}(\text{C}_2\text{H}_5)_3\text{BH}$
Product Number	401749

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**APPLICATION** Powerful and selective reducing agent.

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### FURTHER INGREDIENTS

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

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### SPECIFICATION

Lithium Triethylborohydride: 11 - 13 %

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### METHOD OF ANALYSIS

Volumetric determination of hydrogen gas evolved on hydrolysis. Detailed description available on request.

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### PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless
Flash point	-21.2 °C (Tetrahydrofuran)
Boiling point/boiling range	66 °C (Tetrahydrofuran)
Density	0.89 g/cm <sup>3</sup> at 20 °C

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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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Water solubility	(Not applicable) (Reacts violently with water.)
Molecular weight	105.94 g/mol

## HANDLING & STORAGE

Handling	Keep container dry and tightly closed. The product should only be handled under inert gas (nitrogen or argon). Never add water, acids or oxidizing materials to the product. In case of fire use dry extinguishers on basis of sodium chloride or limestone powder. Never use water or CO <sub>2</sub> -extinguishers. Pay attention to official safety and transport regulations.
Storage	Keep container dry and tightly closed. We recommend not to exceed a storage temperature of 10 °C and to use the product within a period of six months after receipt.

## 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	

Hazard pictograms



Signal Word	Danger
H&P Phrases	See Safety Data Sheet

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**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 5.0, 40, 125 or 450 l. For safety reasons these are filled to a maximum of 90 %.

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**OTHER INFORMATION**

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

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