TECHNICAL DATA SHEET

Date of Issue: 2024/12/17

Lithium Triethylborohydride, typ. 20 % solution in THF (typ. 1.7 M)

CAS-No.	22560-16-3
EC-No.	245-076-8
REACH No.	01-2120763165-54-0000
Molecular formula	C6-H16-B .Li
Product number	10001495, 10001496, 10001497, 10001498

APPLICATION

Powerful and selective reducing agent.

SPECIFICATION

Lithium Triethylborohydride: 19.0-21.0 %

METHOD OF ANALYSIS

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

PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless

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.

Melting point/freezing point	-108.44 °C at 1,013 hPa (Tetrahydrofuran)
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (Tetrahydrofuran)
Density	0.89 g/cm3 at 20 °C
Water solubility	(Not applicable)
Molecular weight	105.94 g/mol

HANDLING & STORAGE

Handling	Keep container dry and tightly closed and away from heat and direct sunlight. The product should only be handled under inert gas (nitrogen or argon). Catches fire spontaneously if exposed to air. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Flash back possible over considerable distance. Use only explosion-proof equipment. 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 CO2-extinguishers. Pay attention to official safety regulations (see also: "Transport regulations" and "GHS Hazard Pictograms"). Pay also attention to the Safety Data Sheet - Section 7.
Storage	When stored according to SDS the material has limited stability due to decomposition over time. We therefore recommend to consume the material within a period of 6 months after receipt. For optimum storage stability keep temperatures below 10°C.

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TRANSPORT & PACKAGING

UN number 3394

ADR	Class: 4.2	PG: I	Label: 4.2 (4.3)
RID	Class: 4.2	PG: I	Label: 4.2 (4.3)
IMDG	Class: 4.2	PG: I	Label: 4.2 (4.3)
IATA_C	Class: 4.2		
IATA_P	Class: 4.2		

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 to 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 %.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

Our brochure(s) Trifolder - Reductions with Metal Hydrides in Organic Synthesis

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