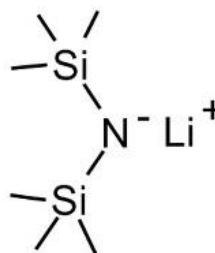


TECHNICAL DATA SHEET

Date of Issue: 2025/10/21

Lithium Hexamethyldisilazide (LHMDS), typ. 20 % solution in THF / Ethylbenzene (typ. 1.1 M)



CAS-No.	4039-32-1
EC-No.	223-725-6
REACH No.	01-2119913303-51-0000
Molecular formula	LiN[Si(CH ₃) ₃] ₂
Product number	10001489, 10001490, 10001491, 10001492, 10001493, 10001494

APPLICATION Selective low nucleophilic base for e. g. enolisations.

FURTHER INGREDIENTS

ethylbenzene

CAS-No.	100-41-4
EC-No.	202-849-4

SPECIFICATION

LHMDS (active base)	19 - 21 %
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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.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle.com.

Please contact us at www.albemarle.com/contact with questions.

METHOD OF ANALYSIS

Thermometric titration with 2-butanol for the determination of active base. Potentiometric titration of the methanolized product for the determination of total base. Detailed description available on request.

PHYSICAL PROPERTIES

Appearance	liquid
Colour	slight yellow to brown clear to slight milky cloudy
Crystallization temperature	< -5 °C
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (Tetrahydrofuran)
Density	ca. 0.9 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	167.33 g/mol

HANDLING & STORAGE

Handling	LHMDS should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Flashback possible over considerable distance. Use only explosion-proof equipment. Take measures against electrostatic discharges. LHMDS decomposes in contact with humidity. In case of fire use dry extinguishers on basis of sodium chloride or limestone powder. Never use water or CO ₂ -extinguishers. Pay also attention to the Safety Data Sheet.
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Storage

LHMDS should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. LHMDS starts to form crystalline precipitates on cooling below about -5 °C. Recommended storage temperature: min. 0 °C. When stored according to SDS the material is fairly stable. We still recommend to retest the material 12 months after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation.

Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 2924

ADR	Class: 3	PG: II	Label: 3 (8)
RID	Class: 3	PG: II	Label: 3 (8)
IMDG	Class: 3	PG: II	Label: 3 (8)
IATA_C	Class: 3	PG: II	Packing instruction (cargo aircraft): 363
IATA_P	Class: 3	PG: II	Packing instruction (passenger aircraft): 352

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

Glass bottles of 1000 ml. Steel bottles and containers with volumes of 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %. Steel drums with 200 l net volume.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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