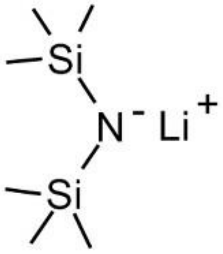
TECHNICAL DATA SHEET

Date of Issue: 2025/03/07

Lithium Hexamethyldisilazide (LHMDS), typ. 25 % solution in THF (typ. 1.3 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	10000128, 10001500

APPLICATION

Selective low nucleophilic base for e. g. enolisations.

SPECIFICATION

LHMDS (active base)	24 - 26 %
THF	typ. 75 %
2-Methyl-2-Butene	max. 0.2 %

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.

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PHYSICAL PROPERTIES

Appearance	liquid
Color	yellow to red brown
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	0.89 g/cm3 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. LHMDS decomposes in contact with humidity. Pay also attention to the Safety Data Sheet.
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. Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet.

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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.

Packaging

Glass bottles of 100, 250, 500 and 1,000 ml. Steel bottles and containers with volumes of 7.4, 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

Our brochure(s) Lithium & Magnesium Amides

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