TECHNICAL DATA SHEET

Date of Issue: 2016/12/15

Lithium Hexamethyldisilazide (LHMDS), typ. 25 % solution in Toluene / Ethylbenzene (typ. 1.3 M)

CAS-No. 4039-32-1
EC-No. 223-725-6
REACH No. 01-2119913303-51
Molecular Formula LiN[Si(CH₃)₃]₂
Product Number 401723

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

FURTHER INGREDIENTS

Toluene
CAS-No. 108-88-3
EC-No. 203-625-9
Ethylbenzene
CAS-No. 100-41-4
EC-No. 202-849-4

SPECIFICATION

LHMDS (active base) 23 - 27 %
Toluene typ. 66 - 70 %
Ethylbenzene max. 9 %

METHOD OF ANALYSIS

Direct titration with benzoic acid against 4-phenyl-azo-diphenyl-amine for the determination of active base (modified Watson-Eastham). Potentiometric titration of the hydrolyzed product for the determination of total base. Detailed description available on request.

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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.
PHYSICAL PROPERTIES

Appearance: liquid
Color: yellowish to red brown
Crystallization temperature: < 5 °C
Flash point: 4 °C (Toluene)
Boiling point/boiling range: ca. 110 °C (Toluene)
Density: ca. 0.86 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. 15 °C. Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 2924

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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 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