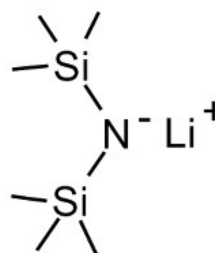


TECHNICAL DATA SHEET

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 | $\text{LiN}[\text{Si}(\text{CH}_3)_3]_2$ |
| 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.

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.

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/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. 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

| | | | |
|--------|----------|--------|---|
| 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 |

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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

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