

LITHIUM HEXAMETHYL DI SILAZANES

[Lithium Hexamethyl Disilazane (LiHMDS) in THF (24%)]

- a. 24 wt % Solution in Tetrahydrofuran.
- b. Density at 25°C – Approx. 0.88 gm/ml.

1. OTHER NAMES

- c. Lithium hexamethyl disilazide in THF.
- d. Lithium bis(trimethylsilyl) amide in THF.
- e. LiHMDS IN THF24.

2. CAS NO.

- a. 4039-32-1 for LiHMDS.
- b. 109-99-9 for THF.

3. FORMULA WEIGHT

167.33 gm/mole.

4. TECHNICAL SPECIFICATION

- a. Appearance : Yellow to brown liquid.
- b. Total alkalinity (%) : 23 - 25.
- c. Hydroxide content (%): 1max
- d. LiHMDS content(%) : 22 - 24.

5. SOLUBILITY

- a. LiHMDS is very soluble in aromatic hydrocarbons and ethers.

6. STABILITY

Atmospheric moisture and carbon dioxide reacts with LiHMDS to produce Lithium hydroxide and Lithium carbonate. Hexamethyl disilazane is liberated from these reactions, the solution becomes cloudy and develops colour. LiHMDS solution should be stored in a cool place away from heat, sparks and flame.

7. PACKAGING

- a. Sample packing from 100 gms. to 500 gms in glass bottle.
- b. 180 kgs in 210 L steel drum.
- c. Any other packing as per customer request.

SUPARNA CHEMICALS LTD

54 A Mittal Tower, Nariman Point, Mumbai India.

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8. SAMPLING INSTRUCTIONS

- The product is packed under dry nitrogen with positive pressure of nitrogen inside the drum.
- The quality of the product deteriorates very fast if exposed to atmosphere even for a brief period.
- While sampling, please ensure that the sample is taken out under dry nitrogen in a preweighed stoppered bottle and analysis is done immediately.
- After sampling, tie/close the bag/container securely , put positive nitrogen pressure in the drum and tighten it properly. This is very important so that the product does not deteriorate on storage.

9. SHIPPING INFORMATION

- UN-2920, PG 1, 8(3)
- Corrosive flammable liquid., flammable, n.o.s.(Lithium hexa methyl disilazane in Tetrahydrofuran)

10. PRODUCT PROPERTIES

- Very high purity.
- Strong base.
- Selective and specific in many organic reactions.
- Low hydroxide content.
- Custom packaging available.
- Any quantities in bulk.

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11. PRODUCT BENEFITS

- a. High reaction yields USED IN :
- b. Base catalyzed reactions.
- c. Strong base for deprotonation reactions.
- d. Condensation.
- e. Superbase reaction used with butyllithium.
- f. Base for Wittig reaction.
- g. Kinetic enolate formation.
- h. Coupling reactions such as Frater-Seebach alkylation and mixed Claisen reaction.
- i. To form Organo lithium compounds including acetylides or lithium enolates.
- j. Reaction with wide range of metal halides to give metal bis(trimethyl)amides.

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