

# TECHNICAL DATA SHEET

Date of Issue: 2018/02/28

## Lithium Methoxide, typ. 10 % solution in Methanol (typ. 2.2 M)

|                   |                     |
|-------------------|---------------------|
| CAS-No.           | 865-34-9            |
| EC-No.            | 212-737-7           |
| REACH No.         | 01-2120138356-56    |
| Molecular Formula | CH <sub>3</sub> LiO |
| Product Number    | 401719              |

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**APPLICATION** Deprotonation reactions in organic synthesis.

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### FURTHER INGREDIENTS

|          |           |
|----------|-----------|
| Methanol |           |
| CAS-No.  | 67-56-1   |
| EC-No.   | 200-659-6 |

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### SPECIFICATION

Lithium Methoxide: 9.5 – 10.5 %

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### METHOD OF ANALYSIS

Determination as total base by acidimetric titration after hydrolysis. Detailed description available on request.

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### PHYSICAL PROPERTIES

|            |                         |
|------------|-------------------------|
| Appearance | liquid                  |
| Color      | colourless to yellowish |

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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-lithium.com](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://www.albemarle-lithium.com/contact) with questions.



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|                             |                                 |
|-----------------------------|---------------------------------|
| Flash point                 | 17.5 °C 1,013 hPa (Product)     |
| Boiling point/boiling range | 65 °C (Methanol)                |
| Density                     | 0.85 g/cm <sup>3</sup> at 20 °C |
| Water solubility            | (Not applicable)                |
| Molecular weight            | 37.98 g/mol                     |

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## HANDLING & STORAGE

|          |  |
|----------|--|
| Handling | <p>Lithium Methoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation.</p> <p>Lithium Methoxide decomposes in contact with humidity. Pay also attention to the Safety Data Sheet.</p> |
| Storage  | <p>Lithium Methoxide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet.</p>                                      |

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## TRANSPORT & PACKAGING

UN number 3286

|        |          |        |   |
|--------|----------|--------|---|
| ADR    | Class: 3 | PG: II | Label: 3 (6.1, 8)                             |
| RID    | Class: 3 | PG: II | Label: 3 (6.1, 8)                             |
| IMDG   | Class: 3 | PG: II | Label: 3 (6.1, 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 with volumes of 7.4, 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %. Steel container up to 17 cubic meter.

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OTHER INFORMATION

Further Related                 Safety Data Sheet  
Documents

Our brochure(s)                Alkoxides, Trifold - Specialties for Deprotonation

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