

TECHNICAL DATA SHEET

Date of Issue: 2017/09/07

Methylolithium, typ. 2.5 % in Diethyl Ether with addition of Lithium Iodide (typ. 1.0 M)

CAS-No.	917-54-4
EC-No.	213-026-4
REACH No.	01-2120065574-52
Molecular Formula	CH ₃ Li
Product Number	401745

APPLICATION

Methylating agent. Lithiation of organic compounds. The solution contains lithium iodide as a complexing agent. This increases selectivity and reduces reactivity of Methylolithium.

FURTHER INGREDIENTS

Diethyl ether

CAS-No.	60-29-7
EC-No.	200-467-2

Lithium iodide

CAS-No.	10377-51-2
EC-No.	233-822-5

SPECIFICATION

CH ₃ Li	2.1 - 3.1 %
LiI	14 - 16 %

PHYSICAL PROPERTIES

Appearance	liquid
Color	colorless to light yellow

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.



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Flash point	-45 °C (Diethyl ether)
Decomposition temperature	150 °C
Boiling point/boiling range	ca. 34 °C at 1,013 hPa (Diethyl ether)
Density	ca. 0.86 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	21.98 g/mol

HANDLING & STORAGE

Handling	Handling only under inert gas (nitrogen or argon). Product is spontaneously flammable in air. Pay attention to official safety regulations (see also: "Transport regulations" and "Marking").
Storage	Under exclusion of air and humidity the solution is stable. Recommended storage temperature: 20 °C. Keep container tightly closed. Keep away from sources of ignition. Take precautionary measures against static discharges.

TRANSPORT & PACKAGING

UN number 3394

ADR	Class: 4.2	PG: I	Label: 4.2 (4.3)
RID	Class: 4.2	PG: I	Label: 4.2 (4.3)
IMDG	Class: 4.2	PG: I	Label: 4.2 (4.3)
IATA_C	Class: 4.2		
IATA_P	Class: 4.2		

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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 nominal volumes of 7.4, 27, 127 and 450 l. For safety reasons these are filled to a maximum of 90 %.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
Our brochure(s)	Organolithium Compounds

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