

TECHNICAL DATA SHEET

Date of Issue: 2017/08/08

n-Hexyllithium, typ. 33 % solution in Hexane (typ. 2.5 M)

CAS-No.	21369-64-2
EC-No.	404-950-0
REACH No.	01-0000015449-63
Molecular Formula	$C_6H_{13}Li$
Product Number	401839

APPLICATION Alkylating and metalating agent, without formation of gaseous by-products. Initiator for olefin polymerization.

FURTHER INGREDIENTS

Hexane	
CAS-No.	64742-49-0
EC-No.	925-292-5

SPECIFICATION

Chemical analysis:

active LiC_6H_{13}	32.8 - 33.2 % (2.5 M)
free base *)	max. 0.8 %
Cl (covalent)	max. 0.1 %

*) mainly $LiOC_6H_{13}$

Total base: titration of base resulting from hydrolysis.

Composition of solvent:
abt. 8 % pentanes
abt. 91 % hexanes
abt. 1 % heptanes
abt. 0.01 % aromatics

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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PHYSICAL PROPERTIES

Appearance	liquid
Color	clear yellow
Flash point	< -20 °C (Hexane)
Boiling point/boiling range	55 - 85 °C (Hexane)
Density	ca. 0.69 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	92.11 g/mol

HANDLING & STORAGE

Handling	Under exclusion of air and humidity the solution is fairly stable. Decomposition does not cause pressure build-up. Keep container tightly closed. Keep away from sources of ignition. Take precautionary measures against static discharges. Handling only under inert gas (nitrogen or argon). Product is spontaneously flammable in air. Increase in concentration due to evaporation of solvent results in rising of danger of self-ignition. Pay attention to official safety regulations (see also: "Transport regulations" and "GHS Hazard Pictograms"). Please ask for our brochure "Handling of Butyllithium".
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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

	nominal content	net content *)
Railway tank	35 m3	30.4 m3
Isocontainer	16.6 - 20.5 m3	14.4 - 17.8 m3
Isocontainer	2.5 m3	2.2 m3
Isocontainer	450 l	405 l
Isocontainer	127 l	114 l
Isocontainer	27 l	24 l
Isocontainer	7.4 l	6.5 l

*) for safety reasons, max. 90 % or 87 % of nominal content

100, 250, 500 and 1,000 ml glass bottles with screw cap and with or without penetration disc-seal. Solutions are shipped under nitrogen blanket.

OTHER INFORMATION

Further Related

Safety Data Sheet

Documents

Our brochure(s)

Organolithium Compounds

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