

TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

Di-sec-Butylmagnesium / Lithium Chloride, typ. 13 % solution in THF (typ. 0.8 M)

CAS-No. 943143-06-4

Molecular Formula $C_8H_{18}Mg/LiCl$

Product Number 408536

APPLICATION Reagent for halogen/magnesium exchange reactions.

FURTHER INGREDIENTS

Tetrahydrofuran

CAS-No. 109-99-9

EC-No. 203-726-8

Di-sec-Butylmagnesium

CAS-No. 17589-14-9

EC-No. 241-558-7

Lithium chloride

CAS-No. 7447-41-8

EC-No. 231-212-3

SPECIFICATION

di-sec-ButylMg	11.0 - 15.0 %
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LiCl	4.2 - 5.0 %
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METHOD OF ANALYSIS

Determination of assay as total base by acidimetric titration after hydrolysis; detailed description available on request.

PHYSICAL PROPERTIES

Appearance liquid

Color brown clear

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.

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Crystallization temperature	< -10 °C
Flash point	-21.2 °C (Tetrahydrofuran)
Boiling point/boiling range	66 °C (Tetrahydrofuran)
Density	ca. 0.90 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	180.93 g/mol
Thermal Stability	No crystallisation detected till -10 °C

HANDLING & STORAGE

Handling	Organomagnesium compounds should only be handled under inert gas (nitrogen or argon). Never add water, acids or oxidizing materials to the product. In case of fire use dry extinguishers on basis of sodium chloride or limestone powder. Never use water or CO ₂ -extinguishers. Pay attention to official Safety regulations (see also: 'Transport regulations' and 'GHS Hazard Pictograms').
Storage	Product should be used in a closed apparatus under inert gas. Store in well ventilated areas in tightly closed containers. As material decomposes slowly at room temperature recommended storage temperature is abt. 0 to -10 °C.

TRANSPORT & PACKAGING

UN number 3399

ADR	Class: 4.3	PG: I	Label: 4.3 (3)
RID	Class: 4.3	PG: I	Label: 4.3 (3)
IMDG	Class: 4.3	PG: I	Label: 4.3 (3)
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 494
IATA_P	Class: 4.3	PG: I	

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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. Larger packaging on request.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

Our brochure(s) Turbo Grignards - Li powered metalation, Organomagnesium Compounds

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