# **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<sub>8</sub>H<sub>18</sub>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 %
LiCI	4.2 - 5.0 %

## 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.



0.8 M)

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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/cm3 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 CO2-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

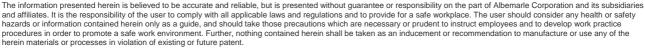
ventilated areas in tightly closed containers. As material decomposes slowly at room

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

Our brochure(s)

Safety Data Sheet

Documents

Turbo Grignards - Li powered metalation, Organomagnesium Compounds

