

TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

Phenylmagnesium Chloride, typ. 25 % solution in THF (typ. 1.9 M)

CAS-No.	100-59-4
EC-No.	202-868-8
REACH No.	01-2120065575-50
Molecular Formula	C ₆ H ₅ ClMg
Product Number	408470

APPLICATION Grignard-reactions: reagent for the introduction of the phenyl group.

FURTHER INGREDIENTS

Tetrahydrofuran

CAS-No.	109-99-9
EC-No.	203-726-8

Chlorobenzene

CAS-No.	108-90-7
EC-No.	203-628-5

Benzene

CAS-No.	71-43-2
EC-No.	200-753-7

SPECIFICATION

Phenylmagnesium Chloride: 24.0– 26.0 %

METHOD OF ANALYSIS

Acidimetric titration of the hydrolyzed product for the determination of assay as total base. Detailed description available on request.

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.



PHYSICAL PROPERTIES

Appearance	liquid
Color	yellowish to dark brown
Crystallization temperature	≤ 0 °C
Flash point	-21.2 °C (Tetrahydrofuran)
Boiling point/boiling range	66 °C (Tetrahydrofuran)
Density	1.04 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	136.86 g/mol
Thermal Stability	crystallisation below around 0 °C

HANDLING & STORAGE

Handling	Phenylmagnesium Chloride should only be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Never add water, acids or oxidizing materials. In case of fire use dry extinguishers based on sodium chloride or limestone powder, never use water or CO ₂ . Pay attention to the Safety Data Sheet.
Storage	Phenylmagnesium Chloride should be stored in tightly closed containers under exclusion of air and humidity. As material tends to crystallize at lower temperatures, it should be stored above 15 °C. Under these conditions, stable over practically unlimited periods. Recommended retest date: six months after date of delivery.

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TRANSPORT & PACKAGING

UN number 2924

ADR	Class: 3	PG: II	Label: 3 (8)
RID	Class: 3	PG: II	Label: 3 (8)
IMDG	Class: 3	PG: II	Label: 3 (8)
IATA_C	Class: 3	PG: II	Packing instruction (cargo aircraft): 363
IATA_P	Class: 3	PG: II	Packing instruction (passenger aircraft): 352

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 and 450 l. For safety reasons these are filled to a maximum of 90 %. Steel drums up to 200 l.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

Our brochure(s) Organomagnesium Compounds, Trifolder - CC-Coupling Reactions in Organic Synthesis

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