

TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

Trimethylsilyl-methylmagnesium Chloride, typ. 20 % solution in THF (typ. 1.28 M)

CAS-No.	13170-43-9
Molecular Formula	$(\text{CH}_3)_3\text{SiCH}_2\text{MgCl}$
Product Number	408490

APPLICATION	Grignard-reactions: reagent for the introduction of a =CH ₂ -group (Reagent for Peterson olefination).
--------------------	---

FURTHER INGREDIENTS

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

SPECIFICATION

TMS-CH₂MgCl: 18 - 22 %

METHOD OF ANALYSIS

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

PHYSICAL PROPERTIES

Appearance	liquid
Color	dark brown

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.



Product Number: 408490
Date of Issue: 2017/09/06

Crystallization temperature	<= 5 °C
Flash point	-21.2 °C (Tetrahydrofuran)
Boiling point/boiling range	66 °C (Tetrahydrofuran)
Density	ca. 0.94 g/cm3 at 20 °C
Water solubility	(Not applicable)
Molecular weight	146.97 g/mol
Thermal Stability	Crystallization below around 5 °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 "Marking").
Storage	Under exclusion of air and humidity stable over practically unlimited periods. As material tends to crystallize at lower temperatures it should be stored above 5 °C. Precipitates can be redissolved by warming and appropriate homogenization. Keep container dry and tightly closed.

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

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.

Product Number: 408490
Date of Issue: 2017/09/06

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 or 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

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.