TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

Cyclohexylmagnesium Chloride, typ. 20 % solution in THF / Toluene (typ. 1.3 M)

MgCI

CAS-No. 931-51-1

EC-No. 213-237-1

REACH No. 01-2120102492-70

Molecular Formula C₆H_{1 1}ClMg

Product Number 408473

APPLICATION Grignard-reactions: reagent for the introduction of the cyclohexyl group; metalation

of CH-acidic compounds.

FURTHER INGREDIENTS

Tetrahydrofuran

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

Toluene

CAS-No. 108-88-3 EC-No. 203-625-9

SPECIFICATION

Cyclohexylmagnesium Chloride	19 – 21 %	
THF	typ. 40 %	
Toluene	typ. 40 %	

METHOD OF ANALYSIS

Determination of assay as total base by acidimetric titration after hydrolysis; 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.



1.3 M)

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PHYSICAL PROPERTIES

Appearance liquid

Color dark brown

Crystallization

temperature

ca. -10 °C

Flash point -21.2 °C (Tetrahydrofuran)

Boiling point/boiling

range

66 °C (Tetrahydrofuran)

Density ca. 0.95 g/cm3 at 20 °C

Water solubility (Not applicable) (Vigorous reaction with water forming cyclohexane and MgOHCl.)

Molecular weight 142.91 g/mol

Thermal Stability Crystallization below around -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 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.

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

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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. Steel drums up to 200 l. Steel bottles with volumes of 7.4, 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %.

OTHER INFORMATION

Further Related

Safety Data Sheet

Documents
Our brochure(s)

Organomagnesium Compounds

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