# **TECHNICAL DATA SHEET**

Date of Issue: 2017/11/27

# Ethylmagnesium Bromide, typ. 40 % solution in 2-Methyl-THF (typ. 3.4 M)

CAS-No. 96-47-9

EC-No. 202-507-4

Molecular Formula C5 H10 O

Product Number 408436

APPLICATION Grignard-reactions: reagent is used for the introduction of the ethyl group;

metalation of CH-acidic compounds.

## **FURTHER INGREDIENTS**

Ethylmagnesium bromide

CAS-No. 925-90-6 EC-No. 213-127-3

## **SPECIFICATION**

Ethyl-MgBr: 39.0 - 41.0 %

# METHOD OF ANALYSIS

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

## PHYSICAL PROPERTIES

Appearance liquid

Color yellow to 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.



MgBr

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Crystallization temperature

< -10 °C

Flash point

-10 °C (2-Methyltetrahydrofuran)

Boiling point/boiling

range

78 °C (2-Methyltetrahydrofuran)

Density

ca. 1.14 g/cm3 at 25 °C

Water solubility

(Not applicable)

Thermal Stability

crystallisation below -10 °C

#### HANDLING & STORAGE

Handling Ethylmagnesium Bromide 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 CO2. Pay attention to the Safety

Data Sheet.

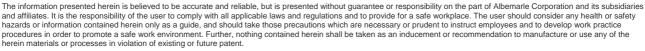
Storage Ethylmagnesium Bromide should be stored in tightly closed containers under

exclusion of air and humidity. Under these conditions, stable over practically unlimited periods. Recommended retest date: six months after date of delivery.

# 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. 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, Trifolder - CC-Coupling Reactions in Organic

Synthesis

