TECHNICAL DATA SHEET

Date of Issue: 2025/01/28

Ethylmagnesium Bromide, typ. 8 % solution in THF (typ. 0.55 M)

CAS-No.	925-90-6
EC-No.	213-127-3
REACH No.	01-2120065578-44-0000
Molecular formula	C2-H5-Br-Mg
Product number	10001743, 10001744

APPLICATION

Grignard-reactions: reagent for the introduction of the ethyl group. As base for deprotonation reactions.

SPECIFICATION

Ethylmagnesium Bromide: 7.5 - 8.5 %

METHOD OF ANALYSIS

Determination of assay as active base by Watson-Eastham titration; 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.

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PHYSICAL PROPERTIES

Appearance	liquid
Color	dark brown
Crystallization temperature	<= 5 °C
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (Tetrahydrofuran)
Density	0.93 g/cm3 at 20 °C
Water solubility	(Not applicable)
Molecular weight	133.27 g/mol
Thermal Stability	crystallisation below around 5 °C

HANDLING & STORAGE

Handling	The material should only be handled under inert gas atmosphere. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Flash back possible over considerable distance. Use only explosion-proof equipment. Protect from frost, heat and sunlight. Never add water, acids, oxidizing materials or alcohols. 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 - Section 7.
Storage	When stored according to SDS the material is fairly stable. We still recommend to retest the material 6 month after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation. As material tends to crystallize at lower temperatures, it should be stored above 10 °C. Precipitates can be redissolved by warming and appropriate homogenization.

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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	

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

Steel bottle with volume of 450L. For safety reasons these are filled to a maximum of 90 %. Steel drum 200 L.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
Our brochure(s)	Organomagnesium Compounds

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