

TECHNICAL DATA SHEET

Date of Issue: 2025/01/24

Allylmagnesium Chloride, typ. 18 % solution in THF (typ. 1.7 M)

| | |
|-------------------|--|
| CAS-No. | 2622-05-1 |
| EC-No. | 220-067-1 |
| REACH No. | 01-2120102494-66-0000 |
| Molecular formula | C ₃ H ₅ ClMg (H ₂ C=CH-CH ₂ -MgCl) |
| Product number | 10000283, 10001670, 10001671, 10001672, 10001673, 10002105, 10004662 |

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

FURTHER INGREDIENTS

| | |
|----------------|-----------|
| hexa-1,5-diene | |
| CAS-No. | 592-42-7 |
| EC-No. | 209-754-7 |

SPECIFICATION

Allylmagnesium chloride: 17,0 – 19,0 %

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.

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Please contact us at www.albemarle.com/contact with questions.



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PHYSICAL PROPERTIES

| | |
|-----------------------------|--------------------------------------|
| Appearance | liquid |
| Color | yellow to dark brown |
| Crystallization temperature | ca. 10 °C |
| Flash point | -21.2 °C 1,013 hPa (Tetrahydrofuran) |
| Boiling point/boiling range | 65 °C at 1,013 hPa (Tetrahydrofuran) |
| Density | ca. 0.96 g/cm ³ at 20 °C |
| Water solubility | (Not applicable) |
| Molecular weight | 100.83 g/mol |
| Thermal Stability | Crystallization around 10 °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 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 - 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 15 °C. |

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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

Glass bottles of 1,000 mL. Steel bottles with volumes of 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %. Steel drums 200 L.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

Our brochure(s) Organomagnesium Compounds

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