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	C3H5ClMg (H2C=CH-CH2-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 hydrolized product for the determination of assay as total base. Detailed description available on request.

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/cm3 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 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 15 °C.

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