

## Technical Data Sheet

Lupranat<sup>®</sup> MP 105

Valid from: 01/11/2024  
Until: 01/11/2027

Revision 9



# Lupranat<sup>®</sup> MP 105

## Chemical nature

Lupranat MP 105 is a modified 4,4'-diphenylmethane diisocyanate (MDI). The average functionality is about 2.4.

## Applications

Lupranat MP 105 is used for the manufacture of rigid and flexible integral skin foams. It is also used for the production of coatings and adhesives, as well as for flexible foams.

## Typical properties

Appearance: brown liquid

NCO-content	28.5	g/100 g	BASANT 2952
Viscosity at 25 °C*	120	mPa·s	BASANT 1334
Density at 25 °C	1.22	g/cm <sup>3</sup>	

## Delivery

The delivery is by road tankers, in containers containing 1000 l and in non-returnable drums.

	container	quantity	Temperature
Lupranat MP105	Insulated container		10 – 40 °c
Lupranat MP105	non-returnable drum	250 kg	10 – 40 °c
Lupranat MP105	IBC	1200 kg	10 – 40 °c

## Storage

Lupranat MP 105 must be protected from moisture. The ideal storage temperature is 25 °C. Under these conditions and if moisture is excluded, Lupranat MP 105 can be stored for at least six months. Drums must be kept airtight. Storage tanks should be blanketed with dry air or with nitrogen.

Erstellt	Geprüft	In Kraft gesetzt
Philip Welters (28.10.2024)	Susanne Demharter (29.10.2024) Thomas Merz (28.10.2024) Julian Kleemann (29.10.2024)	Joachim Baeder (29.10.2024)

Longer storage leads to a lasting increase of viscosity depending on the temperature. In extreme cases a precipitate may form which will not be removed by heating.

Prolonged storage at temperatures below + 5 °C can lead to partial crystallization.

Crystallized material must be melted out immediately by short term heating in a hot air oven. Product temperature must not exceed 60 °C. Local overheating must be avoided, as Lupranat MP 105 will decompose with formation of gas at temperatures above 230 °C. Rolling of the drums in a hot air oven is the recommended method of dissolving the crystals. After melting out, the contents of the drum must be thoroughly mixed.

More detailed information on transport and storage of isocyanates is given in the ISOPA-Guidelines "For Safe Loading / Unloading Transportation Storage of TDI and MDI in Bulk" and "For the Safe Transportation, Unloading & Storage of Packaged TDI & MDI".

### **Safety advice and environmental protection**

Transportation, storage, processing, waste treatment and disposal must comply with national regulations.

Lupranat MP 105 is classified as harmful if inhaled. It is irritating to the eyes, respiratory system and skin and may cause sensitization by inhalation and skin contact

National regulations for exposure limits and labelling must also be observed. Before processing the product we recommend reading the safety data sheet.

In order to avoid accidents the residual product in the drums / IBC must be handled with care. Any water or moisture which is allowed to enter the drum will react with Lupranat MP 105 and release carbon dioxide. Unless action is taken to prevent moisture entry or gas entrapment, the drums will become pressurized and could rupture.

This BASF material may not be used for the manufacture of materials and articles intended to get in contact with food or drinking water.

If it is intended to use BASF materials for the manufacture of medical devices, toys or consumer goods (e.g., products which will come into contact with the skin), please contact your BASF's Sales Manager and Product Stewardship department.

### **Disposal of drums**

Residues of MDI remaining in drums / IBC's must be decomposed. Please contact our local offices for further information on national disposal regulations.

The data contained in this document shall constitute the agreed contractual quality of the product at the time of passing of risk. The data is reviewed at regular intervals as part of our quality assurance programme. Neither this data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or fitness for a specific purpose. No liability may therefore be derived from the data contained herein

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