

Technical Data Sheet

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Version:	07
Edition:	08.19

Lupranat[®] MIB

Chemical nature

Lupranat MIB is a mixture of 2,4'- and 4,4'-diphenylmethane diisocyanate (MDI). It contains a stabiliser, in order to prevent yellowing.

Applications

Lupranat MIB is together with other isocyanates used for the manufacture of flexible foams, adhesives and coatings.

Typical properties

colourless to yellow, clear liquid		
250	g/mol	
99.5	g/100 g	titrimetric
33.5	g/100 g	ASTM D 5155-96 A
48	g/100 g	GC
25	mg/kg	ASTM D 1638-74
100	mg/kg	titrimetric
12	mPa⋅s	DIN 53 018
1.19	g/cm³	DIN 51 757
	250 99.5 33.5 48 25 100 12	250 g/mol 99.5 g/100 g 33.5 g/100 g 48 g/100 g 25 mg/kg 100 mg/kg 12 mPa⋅s

Delivery

Lupranat MIB can be delivered in road tankers, in containers containing 1000 I and in non-returnable drums. If delivered in road tankers, temperature during transport should be maintained at a set point of 25 °C and 35 °C. If delivered in drums, temperature should not fall below crystallization point. Exposure to intensive sunlight should be avoided.



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Storage

Lupranat MIB is sensitive to moisture. The products slowly form dimeric diphenylmethanediisocyanate, which is seen as a precipitate and which might influence the properties of the final products if used for special applications. This dimer cannot be removed by heating.

The ideal storage temperature is 30 to 35 °C. Under theses conditions and if moisture is excluded, Lupranat MIB can be stored for at least 3 months. The containers must be kept airtight, storage tanks must be blanketed with dry nitrogen. Prolonged storage at high temperatures can lead to a discolouration, an increased dimer content and the product may become turbid.

If Lupranat MIB is stored at temperatures below +19 °C, crystals can be formed. Crystallised product must be melted out immediately by short term heating. The product temperature must not exceed 50 °C. Local overheating must be avoided, because the product will be destroyed at temperatures above 230 °C with consequent gas formation. 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

Labelling, transportation, storage, processing, waste treatment and disposal must comply with national regulations. Occupational exposure limits are to be observed.

Lupranat MIB is classified as harmful if inhaled. It causes skin irritation and serious eye irritation. It may cause respiratory irritation. It may cause sensitisation by inhalation and skin contact. It is suspected of causing cancer. It may cause damage to organs though prolonged or repeated inhalation exposure.

Before processing the product, we recommend reading the safety data sheet. For further information consult our Technical Information leaflet "Safety and Precautionary Measures for the Processing of Polyurethane Systems".

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



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If it is intended to use BASF materials for the manufacture of toys or consumer goods (e. g. products which will come into contact with foodstuffs or with the skin) or medical products, national and international regulations have to be observed.

In the case that migration tests or tests of trace monomers are recommended in the special legislations by the manufacturer of consumer goods, the obligation to fulfill these requirements and to conduct tests for the supplied products is still in the hand of the customer. BASF cannot take over this responsibility for the use of its products from our customers.

Where no regulations exist, consumer goods or medical products must at least comply with European legislation. We recommend contacting our Sales and our Ecology and Product Safety departments.

Disposal of drums

Residues of MDI remaining in drums must be neutralized. Information on disposal is given in our Technical Information "Safety and Precautionary Measures for the Processing of Polyurethane Systems". Please contact our local agencies for further information on national disposal regulations.

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The data contained in this document as well as advice or other support services are based on our current knowledge and experience and are provided according to our best knowledge. In view of many factors that may affect processing and application of our products, this data does not relieve processors from carrying out their own investigations and tests, particularly with regards to the suitability of the goods supplied for the processes and purposes they intend to use them for; neither does this data imply any guarantee of certain properties, or the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, measured values etc. given herein may change without prior notice and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

For further details or questions please contact the BASF entity responsible for your country. Contact details can be found at www.basf.com/global/en/who-we-are/organization/locations.html.