

Chemical nature

Lupranat MX 120/1 is a solvent-free, modified pure diphenylmethane diisocyanate. The average functionality is about 2.1.

Applications

Lupranat MX 120/1 is used as a major starting material in applications such as prepolymers, elastomers, shoe soles, sealants, adhesives and Polyurethanes with dampening properties. It is designed to replace pure MDI in applications where it is desirable to use a product that can be stored as a liquid

Typical properties

Appearance: pale yellow liquid

NCO-Content	31.5	g/100 g	ASTM D 5155-96 A
Viscosity at 25 °C	26	mPa·s	DIN 53 018
Melting point	17	°C	ASTM D 1638-74
Density at 25 °C	1.2	g/cm ³	DIN 51 757

Delivery

The delivery is by road tankers. Transport temperatures should be between 20 °C and 30 °C

Storage

Lupranat MX 120/1 must be protected from moisture. The ideal storage temperature is 20 to 25 °C. Under these conditions and when moisture is excluded, the shelf life of Lupranat MX 120/1 is at least three months. In storage tanks the product should be kept under a dry nitrogen blanket. If stored at higher temperature viscosity will rise during the time of storage. In extreme cases a precipitate may form which will not be removed by heating.

If the product becomes cold the viscosity will increase. This may lead to problems in processing. Storage for longer periods below 20°C can lead to partial crystallisation.

Lupranat® MX 120/1

Crystallised material must be melted out immediately by short term heating. The product temperature must not exceed 70 °C. Local overheating must be avoided, as Lupranat MX 120/1 will decompose with the formation of gas at temperatures above 230 °C.

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 MX 120/1 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 through prolonged or repeated inhalation exposure.

National regulations for exposure limits and labelling must also be observed. Before processing the product, we recommend reading the safety data sheet. For further information consult our Technical Information "Safety and Precautionary Measures for the Processing of Polyurethane Systems".

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. 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.

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