

Technical Data Sheet**Lupranat® T 80 A**

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Edition: 08.19

Chemical nature

Lupranat T 80 A is an isomer mixture of 80 % 2,4- and 20 % 2,6-toluene diisocyanate (TDI).

Applications

Lupranat T 80 A is used principally for the manufacture of polyurethane flexible foams for the furniture and automotive industries. It is also used for the production of polyurethane paints, adhesives and textile coatings.

Typical properties

Appearance: colourless liquid

Colour number	10	HAZEN, APHA	DIN EN ISO 6271-2
Purity	99.5	g/100 g	EN ISO 14896
NCO-content	48.2	g/100 g	EN ISO 14896
2,4-Isomer	80.5	g/100 g	GC
Acidity as HCl	15	mg/kg	ISO 14898
Hydrolysable chlorine	40	mg/kg	ISO 15028
Viscosity at 25 °C	3	mPa·s	DIN 51 550/53 018
Density at 25 °C	1.22	g/cm ³	DIN 51 757

Delivery

The delivery is by tankers and in non-returnable drums. If delivered in road tankers, temperature during transport should be maintained between 20 °C and 40 °C. If delivered in drums, temperature should not fall below crystallization point. Exposure to intensive sunlight should be avoided.

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Lupranat® T 80 A**Storage**

Lupranat T 80 A must be protected from moisture. Oxygen and UV-light cause discolouration which normally does not affect the processing of the material.

The ideal storage temperature is between 20 °C and 25 °C. Under these conditions and if moisture and oxygen are excluded, Lupranat T 80 A can be stored for at least 12 months. Drums must be kept airtight. Storage tanks should be blanketed with nitrogen.

Storage at higher temperature can lead to discolouration and to a formation of solids. These solids cannot be dissolved by heating.

Storage for longer periods under + 15 °C can lead to crystallisation.

Crystallised material must be melted out by short term heating in a hot air oven. Product temperature must not exceed 40 °C. Local overheating must be avoided, as Lupranat T 80 A will decompose with formation of gas at temperatures above 250 °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

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

Lupranat T 80 A is classified as very toxic by inhalation. It is irritating to the eyes, respiratory system and skin. It may cause sensitisation by inhalation and skin contact.

Lupranat T 80 A is classified as a category 3 carcinogen (i. e. a substance which causes concern for man owing to possible carcinogenic effects in animal experiments).

Lupranat T 80 A is harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

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".

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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 T 80 A and release carbon dioxide. Unless action is taken to prevent moisture entry or gas entrapment, the drums will become pressurized and could rupture.

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.

Disposal of drums

Residues of isocyanate 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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Contact details can be found at www.basf.com/global/en/who-we-are/organization/locations.html.**