

Product Information

CM – Monomers Division

TECHNICAL DATA SHEET

Document name: TDS_Lupranat T80M_30835700
Revision: 1 issued: May 20, 2025

Product: **Lupranat® T80 M**
PRD-No.: 30835700
Chemical Name: m-tolidene diisocyanate

Chemical nature Lupranat T80 M is an isomer mixture of 80 % 2,4- and 20 % 2,6-toluene diisocyanate (TDI).

Applications Lupranat T80 M is used principally for the manufacture of polyurethane flexible foams for the furniture and automotive industries. It is also used to produce polyurethane paints, adhesives and textile coatings.

Typical properties Appearance: colorless liquid

| | | | |
|-----------------------|------|-------------------|-------------------|
| 2,4-Isomer | 80 | g/100 g | GC |
| Acidity as HCl | 15 | mg/kg | ISO 14898 |
| Color number | 10 | Hazen, APHA | DIN EN ISO 6271-2 |
| Density at 25 °C | 1.22 | g/cm ³ | DIN 51 757 |
| Hydrolysable chlorine | 40 | mg/kg | ISO 15028 |
| NCO-content | 48.2 | g/100 g | EN ISO 14896 |
| Purity | 99.5 | g/100 g | EN ISO 14896 |
| Viscosity at 25 °C | 3 | mPa·s | DIN 51 550/53 018 |

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.

Storage Lupranat T80 M must be protected from moisture. Oxygen and UV-light cause discoloration 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 T80 M 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 discoloration and to a formation of solids. These solids cannot be dissolved by heating. Storage for longer periods under + 15 °C can lead to crystallization. Crystallized 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 T80 M will decompose with formation of gas at temperatures above 250 °C.

Product Information

CM – Monomers Division

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.

Before processing the product, we recommend reading the safety data sheet. Information on possible hazards can be found in the safety data sheet (see "SECTION 2: Hazards Identification")

Occupational exposure limits are to be observed.

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 M 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. Please contact our local offices for further information on national disposal regulations.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information 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.