

## Lupranate® T80– Type 2

### Toluene Diisocyanate

Lupranate® T80 toluene diisocyanate (TDI) is an acidified 80% - 20% mixture of the 2,4 and 2,6 isomers of toluene diisocyanate. This product is generally used in the preparation of polyurethane prepolymers.

#### TYPICAL PROPERTIES

Appearance	clear to slightly yellow liquid
NCO Content, wt%	48.2
Viscosity @ 25 °C, cP	3
Nominal Functionality	2
Color, APHA maximum	15
Vapor Pressure @ 25 °C, mm Hg	0.025
Specific Gravity @ 25 °C, g/cm <sup>3</sup>	1.22
Hydrolyzable chlorine, ppm	0.008-0.012
2,4' Isomer, wt%	80 ± 1
2,6' Isomer, wt%	20 ± 1



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico. For more information on Responsible Care® go to:

**U.S.:** [www.basf.us/responsiblecare\\_usa](http://www.basf.us/responsiblecare_usa)

**Canada:** [www.basf.us/responsiblecare\\_canada](http://www.basf.us/responsiblecare_canada)

**México:** [www.basf.us/responsiblecare\\_mexico](http://www.basf.us/responsiblecare_mexico)

#### **BASF Corporation**

1609 Biddle Avenue  
Wyandotte, MI 48192

Phone: 734-324-6100

<https://polyurethanes.basf.us>

# Lupranate® T80– Type 2

## Toluene Diisocyanate

### STORAGE

Store under a dry air (-20 °C dew point) or dry nitrogen blanket to exclude moisture. The most favorable storage temperature for Lupranate® T80 Isocyanate is between 15.6 °C and 35 °C. Storage above 35 °C for extended periods may cause a change in product quality. Below 16 °C Lupranate® T80 Isocyanate may begin to freeze. If freezing or partial freezing occurs slowly heat the product to 16-35 °C to re-liquefy. The product must be thoroughly mixed before using to ensure uniform isomer distribution and reactivity. The shelf life of Lupranate® T80 Isocyanate is twelve months if the temperature is maintained at 15-30 °C and moisture is excluded.

### SHIPPING INFORMATION

20,000-gallon tank cars, 4,500-gallon tank trucks and 55-gallon non-returnable steel drums are standard.

### HAZARD STATEMENT

TDI products are classified as toxic if inhaled. It causes skin irritation and serious eye irritation. It may cause respiratory irritation. It may cause sensitization by inhalation and skin contact. It is suspected of causing cancer. It may cause damage to organs through prolonged or repeated inhalation exposure. Before processing the product, we recommend reading the safety data sheet. Labelling, transportation, storage, processing, waste treatment and disposal must comply with nation regulations. Occupational exposure limits are to be observed. 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 the TDI and release carbon dioxide. Unless action is taken to prevent moisture entry or gas entrapment, the drums will become pressurized and may rupture. For further information please consult our "TDI Handbook".

### IN CASE OF CHEMICAL EMERGENCY

Call CHEMTREC (800-424-9300) or BASF (800-832-HELP) day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. Outside the U.S., call (703-527-3887).

---

**Attention:** This product is sold solely for use by industrial institutions. Refer to our Safety Data Sheet (SDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product. An SDS as well as additional information on BASF urethane chemicals may be obtained by visiting [polyurethanes.basf.us](http://polyurethanes.basf.us).

**Important:** While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by BASF hereunder are provided gratis and BASF assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.