

# Lupranate<sup>®</sup> T80

## Toluene Diisocyanate

Lupranate<sup>®</sup> T80 toluene diisocyanate (TDI) is an 80% - 20% mixture of the 2,4 and 2,6 isomers of toluene diisocyanate. This product is used in the preparation of polyurethane foams, prepolymers and elastomers.

	Type 1	Type 2	Method (STI)
Assay, % by weight, minimum	99.5	99.5	8207
Total acidity as HCl, %	0.003 max	0.007-0.009	8202
Hydrolyzable chloride, wt. %	0.007 max.	0.008-0.012	8203
Isomer ratio – 2,4 wt. %	80 ± 1	80 ± 1	8207
– 2,6 wt. %	20 ± 1	20 ± 1	8207
Color, APHA, maximum	15	15	8206

### TYPICAL PROPERTIES

Molecular weight .....	174.2
Specific gravity 25°C/25°C .....	1.22
Density @ 20°C, lbs/gal.....	10.2
Boiling point, 10 mm Hg, °F.....	248
Flash point, °F (COC) .....	270
Vapor pressure @ 20°C, mm Hg .....	0.01
Freezing point, °F .....	53.6

#### 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 60°F and 95°F (15.6°C-35°C). Storage above 95°F for extended periods may cause a change in product quality. Below 60°F Lupranate T80 Isocyanate may begin to freeze. If freezing or partial freezing occurs slowly heat the product to 60-95°F to re-liquefy. The product must be thoroughly mixed before using to ensure uniform isomer distribution and reactivity.

#### Shipping Information:

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

#### 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. TDI is a hazardous chemical. Refer to our Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product. An MSDS as well as additional information on BASF urethane chemicals may be obtained by telephoning BASF Corporation, Urethane Customer Service at (877) 297-3322 or faxing (734) 324-6866.

#### Warning:

These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

#### 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.

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## Technical Bulletin



The Chemical Company

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