



# Lupranate<sup>®</sup> T80 – Type 1

## Toluene Diisocyanate

Lupranate 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.

### TYPICAL PROPERTIES

NCO content, wt.%	48.2
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
Assay, % by weight minimum	99.5
Total acidity as HCl,	0.002-0.005
Hydrolyzable chloride, wt. %	0.007 max.
Isomer ratio - 2,4 wt. %	80 ± 1
- 2,6 wt. %	20 ± 1
Color, APHA, maximum	15

### 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. 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.

**Important:**

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