Lupranate® T80
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, prepolymer and elastomers.

<table>
<thead>
<tr>
<th>Property</th>
<th>Type 1</th>
<th>Type 2</th>
<th>Method (STI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay, % by weight, minimum</td>
<td>99.5</td>
<td>99.5</td>
<td>8207</td>
</tr>
<tr>
<td>Total acidity as HCl, %</td>
<td>0.002-0.005</td>
<td>0.007-0.009</td>
<td>8202</td>
</tr>
<tr>
<td>Hydrolyzable chloride, wt. %</td>
<td>0.007 max.</td>
<td>0.008-0.012</td>
<td>8203</td>
</tr>
<tr>
<td>Isomer ratio – 2.4 wt. %</td>
<td>80 ± 1</td>
<td>80 ± 1</td>
<td>8207</td>
</tr>
<tr>
<td>– 2.6 wt. %</td>
<td>20 ± 1</td>
<td>20 ± 1</td>
<td>8207</td>
</tr>
<tr>
<td>Color, APHA, maximum</td>
<td>15</td>
<td>15</td>
<td>8206</td>
</tr>
</tbody>
</table>

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. 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.

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**BASF Corporation**

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