



M/S. BIMAL PHARMA PVT. LTD. MUMBAI (INDIA)	FINISHED PRODUCT INFORMATION
QUALITY CONTROL AND ASSURANCE	PRODUCT : Toluene Diisocyanate (TDI 80/20)
MSDS No. : BPPL- 194 (Available on Request)	SPECIFICATION No. : FP- 194 (Enclosed)

1. **NOMENCLATURE** : TDI, Toluene Diisocyanate  
: 2,4 Diisocyanato-1-Methyl Benzene  
: Toluene-2,4-Diisocyanate

2. **CAS No.**

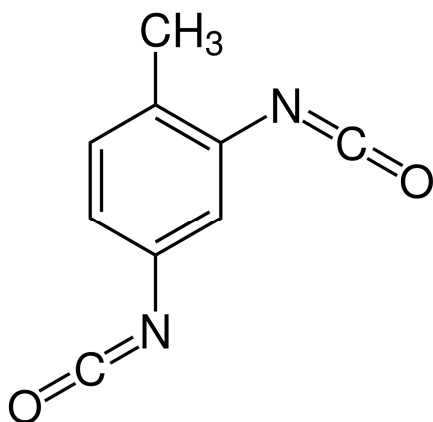
Toluene Diisocyanate : CAS No. 26471-62-5  
2,4-Toluene Diisocyanate : CAS No. 584-84-9  
2,6-Toluene Diisocyanate : CAS No. 91-08-7

3. **HS Code No.** : 29291010

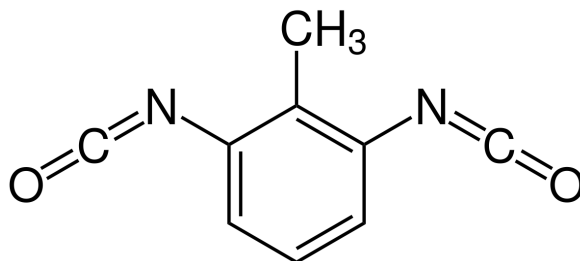
4. **EMPIRICAL FORMULA** :  $C_9H_6N_2O_2$  OR  $CH_3C_6H_3(NCO)_2$

5. **MOL. WT.** : 174 g/mol

6. **STRUCTURAL FORMULA** :



2,4 TDI (80%)



2,6 TDI (20%)

7. **SPECIFIC GRAVITY** : 1.21 gm/ cm<sup>3</sup>  
(at 25°C)

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- 8. MELTING POINT** : 21.8°C
- 9. BOILING POINT  
(at 760 mm Hg)** : 251°C
- 10. DESCRIPTION** :
- : Clear liquid
  - : Colourless to yellow
  - : Sharp, Pungent Odor
- 11. APPLICATIONS** :
- : Production of Soft Polyurethane (PU) Foam
  - : For Thermal Insulation of Buildings, Domestic Appliances & Refrigerated Transport.
  - : Industrial Flooring for **Food & Pharma** Factories, where easily cleaned **Hygienic Flooring** is required.
  - : Production of Polyurethane Rubbers and Thermoplastic Elastomers.
  - : As Paint Hardener.



TDI Appearance



TDI Packings

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1. **DESCRIPTION** : Clear liquid  
: Colourless to yellow  
: Characteristic, Pungent Odor
2. **WATER SOLUBILITY** : Reacts slightly with water
3. **PURITY** : 99.90% Min.
4. **ISOMER CONTENT (%)**
  - 2,4- Toluene Diisocyanate :  $80_{\pm 1}$
  - 2,6- Toluene Diisocyanate :  $20_{\pm 1}$
5. **TOTAL ACIDITY** : 40 ppm Max. (0.004%)  
Generally Less than 0.003%
6. **HYDROLYZABLE CHLORINE** : 80 ppm Max. (0.008%)  
Generally Less than 0.007%
7. **TOTAL CHLORINE** : 700 ppm Max. (0.07%)  
Generally Less than 0.03%
8. **COLOUR (APHA)** : 25 Max.  
Generally Less than 20
9. **CIC (Chloroisocyanate)** : 0.0374%
10. **BHT  
(Butylated Hydroxytoluene)** : 0.0361%
11. **NIC (Nitroisocyanate)%** : Not Detectable (ND)

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12. **ODCB  
(Ortho-DICHLOROBENZENE)** : 0.0012%
13. **PACKING** : 250 Kgs. Net in new Steel Drums  
: In 20 ft. FCL, 20 MT Palletized
14. **Shelf Life** : One Year (Intact Drums)
15. **STORAGE** : Store under a Nitrogen atmosphere.  
: Keep containers tightly closed in a dry, cool  
and well-ventilated place