



MONDUR[®] TD 80 Grade A

Monomeric TDI

Description

Mondur TD 80 toluene diisocyanate is a mixture of 2,4- and 2,6-isomers in the ratio of 80% and 20%, respectively. Mondur TD 80 diisocyanate is used in the formulation of rigid and flexible polyester and polyether urethane foams and in the manufacture of prepolymer resins. It is also used in adhesive applications calling for urethane bonding agents. As with any product, use of Mondur TD 80 diisocyanate in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

Product Specifications

Property	Value
Color, APHA, (max)	15
Turbidity @ 25°C, PQA Std. (max)	1
Assay (min)	99.7%
Hydrolyzable Chlorides	0 - 0.007 %
Acidity, Wt.	0 - 0.004 %
2,4-Isomer Ratio	79.5-81.5 %
2,6-Isomer Ratio	18.5-20.5 %

Typical Properties*

Property	Value
Appearance	Water white to pale yellow liquid
Specific Gravity at 20°C	1.22
Flash Point, PMCC	127°C
Refractive Index at 25°C	1.566
Crystallization Point	13°C
Boiling Point	251°C
Bulk Density @ 25°C	10.18 lb/gal

Storage

Mondur TD 80 diisocyanate must be stored in tightly closed containers and protected from contamination with moisture and foreign materials, which can adversely affect processing. TDI will react slowly with water to form polyureas and liberate CO₂ gas, which may cause sealed containers to expand and rupture. Storage temperatures should be maintained at 21°–43°C (70°–110°F).

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Mondur TD 80 diisocyanate. Before working with this product, you must read and become familiar with the available information on its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your local Bayer MaterialScience representative or contact the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Note: The information contained in this bulletin is current as of October 2007. Please contact Bayer MaterialScience to determine whether this publication has been revised.

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This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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