Technical Data Sheet

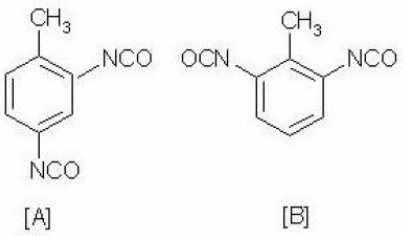
Revision Date：2021-10-25 NO.WHPU_0043

Name：WANNATE®TDI-80 Version：2.0

Application

WANNATE® TDI-80 is a mixture of the two isomeric forms of 2,4-toluene diisocyanate[A] and 2,6-toluene diisocyanate[B] in the ratio 80:20. WANNATE® TDI-80 is used for the production of polyurethanes.

WANNATE® TDI-80 is used principally for the manufacture of polyurethane flexible foams for the furniture, beddings and decoration, transportation, construction industries. Main products include mattress, pillow, coatings, adhesives, sealants and elastomers.



Typical Physical and Chemical Properties

Test Item(s)	Specification(s)
Appearance	Clear liquid, no mechanical impurities
Chromatic Number/Hazen	≤15
TDI Purity /%(A/A)	≥99.5
Isomer ratio(2,4-TDI Content) /%	79.0-81.0
Hydrolysable chlorides/%	≤0.0050
Acid Content(% HCL)/%	≤0.0015

Package(s)

210 L (55 gal.) steel drums

27 ton (59,525 lb.) insulated tank lorry.

Storage

WANNATE® TDI-80 reacts with water to release carbon dioxide. During storage, transfer and handling of the product, contact with water in any form (damp containers, solvents containing water, moist air) must be prevented as the generation of carbon dioxide may result in a dangerous increase in pressure. The polyureas which are formed at the same time may result in turbidity. They may also cause blockages and breakdowns in filters, pumps and pipes. Containers must therefore be absolutely dry and carefully sealed after purging with dry nitrogen. Opened containers must be resealed after removing product. If stored for long periods, the product should be overlaid with nitrogen.

Recommended storage temperature is between 18 - 40°C. Higher storage temperatures for prolonged periods may result in discoloration or the formation of insoluble deposits. The product crystallizes at temperatures below 15°C. However, careful melting at up to 50°C will reliquary the product without any detrimental effect on its quality. The contact surface temperature may not exceed 80°C.The reliquaries product must be homogenized as crystallization causes a shift in the isomer ratio between the crystalline and the still liquid phases.

Shelf Life

Under recommended storage conditions, the shelf life of WANNATE® TDI-80 is 12 months since the date of production.

For more information about safety and environment, please refer to our MSDS or contact our customer service center.

Version information:

Date of first issue: August 10, 2018
Date of 1st revise: Oct 25, 2021 Reason for revision: Change acid content concentration units ppm to %. Change Hydrolysable chlorine concentration units ppm to %. Delete total chlorine. Optimizing the expression of the Test Item. Optimizing the specifications of hydrolysable chlorides and acid content (% HCL). Renew company address and Tel number.

For further information please contact us:
Address: Wanhua Chemical Group Co., Ltd.
No.3, Sanya Rd, YEDA, Yantai, 264006, China
Tel: +86 4009-600-309
Web-site: http://www.whchem.com

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