

Technical Data Sheet

Revision Date: 2023-4-19
Name: WANNATE™ HMDI

NO. PCS_0002
Version: 6.0

Application

WANNATE™ HMDI (4,4'-dicyclohexyl methane diisocyanate) is a liquid cycloaliphatic diisocyanate . It is a colorless or pale yellow liquid with low viscosity and characteristic odor.

Density at 25 °C ~ 1.07 g/cm³

Viscosity at 25 °C ~ 30 mPa s

Freezing Point ≤ 25 °C

WANNATE™ HMDI is raw material for polyurethanes. Polyurethane resins based on WANNATE™ HMDI have good mechanical strength. They are resistant to abrasion and hydrolysis, and retain gloss and physical properties upon weathering. A unique feature of WANNATE™ HMDI is its ability to form optically clear polyurethanes when combined with suitable polyol coreactants. Products based on WANNATE™ HMDI may be useful in coatings for flooring, roofing, maintenance and textile applications as in cast elastomers, potting and encapsulation compounds, optical products, medical products, adhesives and sealants.

Specification

Properties	Unit	Specification
HMDI Content	%	≥ 99.50

NCO Content	%	≥ 31.80
Chromatic Number	APHA	≤ 30
Hydrolysable Chlorides	mg/kg	≤ 10
Chlorides Content	mg/kg	≤ 400

Package(s)

200 kg Metal drum

Other packages available according to customer needs.

Storage / Solubility

WANNATE™ HMDI is sensitive to moisture and therefore should be stored in its sealed original containers. Water or moisture in the air reacts with the product and generates pressure. If partially filled containers are stored, it is advisable to blanket the liquid surface with dry nitrogen before sealing.

At approx. 25 °C, crystals will generate in WANNATE™ HMDI and setting on the bottom. The product should therefore be heated to 40 ~ 50 °C and homogenized before use. This process also allows the use of product which has already crystallized.

Shelf Life

WANNATE™ HMDI is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 12 months at temperatures between 0 and 30 °C

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

Version Information:

Date of first issue: June 6, 2013

Date of 1st revise: Feb 19, 2017 Reason for revision: Change of contact information

Date of 2nd revise: June 9, 2017 Reason for revision: Change of company LOGO

Date of 3rd revise: Sep 1, 2017 Reason for revision: Change of shelf life

Date of 4th revise: Aug 20, 2019 Reason for revision: Change of revision date

Date of 5th revise: Nov 15, 2020 Reason for revision: Change of version

Date of 6th revise: Apr 19, 2023 Reason for revision: Change of product execution standard.

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The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products.