

# Wannate<sup>®</sup> HMDI

## Application

Wannate<sup>®</sup> 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/cm <sup>3</sup>
Flash Point	~ 210 °C
Viscosity at 25 °C	~ 30 mPa s
Freezing Point	~ 25 °C

Wannate<sup>®</sup> HMDI is raw material for polyurethanes. Polyurethane resins based on Wannate<sup>®</sup> 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<sup>®</sup> HMDI is its ability to form optically clear polyurethanes when combined with suitable polyol coreactants. Products based on Wannate<sup>®</sup> 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
Purity	%	≥ 99.5

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NCO Content	%	≥ 31.8
Color Value (APHA)		≤ 30
Hydrolysable Chlorides	%	≤ 0.0010
Total Chlorides	%	≤ 0.10

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### **Package(s)**

200 kg      Metal drum

Other packaging according to customer needs

### **Storage / Solubility**

Wannate<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> HMDI is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 9 months at temperatures between 0 and 30 °C.

### **Safety Hazards Identification**

More advice and information given in the safety data sheet.

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### **Disclaimer**

This information and our technical advice are in good faith but without warranty, and this also applied where proprietary rights of third parties are involved. We advise to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

For more information, please refer to our SDS or contact our customer service center.

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