

## Technical Data Sheet

Revision Date: 2022-04-01

NO.:

Name: WANNATE® HT-500

Version: 3.0

### Application

WANNATE® HT-500 (1,6-hexamethylene diisocyanate based polyisocyanate) is a solvent free, low viscosity aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI), colorless to slightly yellowish clear liquid.

WANNATE® HT-500 can be used as a hardener component for lightfast two-component polyurethane coatings. The main applications for coatings based on WANNATE® HT-500 are automotive refinishing, transportation, industrial finishing and plastics.

Preferred co-reactants are polyacrylates or polyester polyols. However, the compatibility of the combinations used should always be tested.

### Specification

Properties	Unit	Specification
NCO Content	%	22.5 ~ 24.5
Viscosity at 25 °C	mPa s	400~ 1000
Chromatic Number	Hazen	≤ 80
HDI Content	%	<0.5

### Other data:

Equivalent Weight ~ 179

Density at 25 °C

~ 1.15 g/cm<sup>3</sup>

### **Storage / Solubility**

Storage in original container.

Protect from moisture, heat and foreign material.

WANNATE<sup>®</sup> HT-500 is sensitive to moisture. Storage at higher temperatures may result in increasing of color and viscosity.

WANNATE<sup>®</sup> HT-500 can be thinned with esters, ketones and aromatic hydrocarbons such as ethyl acetate, butyl acetate, methoxypropylacetate, acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone, toluene, xylene, solvent naphtha 100 and mixtures thereof.

Generally speaking, it has good compatibility with the solvents listed. However, the solutions formed must be tested for their storage stability. Only PU grade solvents should be used (max.0.05% water, absence of reactive groups such as hydroxyl or amino groups). Aliphatic hydrocarbons are unsuitable as solvents.

WANNATE<sup>®</sup> HT-500 is not recommended to be thinned to a lower solid content of 40%. Prolonged storage of a solution with a lower content may result in turbidity or sedimentation, even gelation.

### **Compatibility**

WANNATE<sup>®</sup> HT-500 can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

However, the compatibility of the combinations used should always be tested.

### **Shelf Life**

WANNATE<sup>®</sup> HT-500 is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 6 months at temperatures between 0 and 30 °C.

### **Safety Hazards Identification**

Sensitization of skin contact

Acute inhalative toxicity

The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology. For more information about safety and environment, please refer to our MSDS or contact our customer service center.

### **Disclaimer**

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

### **For further information please contact us:**

Address: Wanhua Chemical Group Co., Ltd.

No.59, Chongqingdajie, YEDA, Yantai, 264006, China

Customer service: Tel: +86 (535)- 8203244

Fax: +86 (535)- 3388222-3244

Web-site: <http://www.whchem.com>

E-mail: [PCS@whchem.com](mailto:PCS@whchem.com)

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