

## Technical Data Sheet

Revision Date: 2017-01-25  
Name: WANNATE<sup>®</sup> HT-90BS

NO.FCU\_0009  
Version: 2.0

### Application

Wannate<sup>®</sup> HT-90BS (solution of 1,6-hexamethylene diisocyanate based polyisocyanate) is an aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI) and dissolved in 10% of n-butyl acetate and solvent naphtha 100 (1:1) mixed solvent, colorless to slightly yellowish clear liquid.

Equivalent Weight	~ 214
Density at 25 °C	~ 1.13 g/cm <sup>3</sup>
Flash Point	~ 53 °C

Wannate<sup>®</sup> HT-90BS can be used as the hardener component for lightfast two-component polyurethane coatings with high resistance to chemicals and weathering, very good gloss retention and outstanding mechanical properties. Preferred co-reactants are polyacrylates or polyester polyols.

The main applications for coatings based on Wannate<sup>®</sup> HT-90BS are automotive refinishing, transportation, industrial finishing and plastics.

### Specification

Properties	Unit	Specification
NCO Content	%	19.5 ~ 20.1
Solids	%	89 ~ 91
Viscosity at 25	mPa s	350 ~ 650
Color Value	APHA	≤ 40
HDI Monomer	%	≤ 0.2

**Package(s)**

20 kg            Metal drum

60 kg            Metal drum

220 kg           Metal drum

IBC & ISO TANK

Other packaging according to customer needs

**Storage / Solubility**

Storage in original container. Protect from moisture, heat and foreign material.

Wannate<sup>®</sup> HT-90BS is sensitive to moisture. Storage at higher temperatures will result in increasing of color and viscosity.

Wannate<sup>®</sup> HT-90BS 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-90BS is not recommended to thin to a lower solid content. Prolonged storage of a solution with a lower content may result in turbidity and sedimentation, even condensation.

**Compatibility**

Wannate<sup>®</sup> HT-90BS can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

**Shelf Life**

Wannate<sup>®</sup> HT-90BS 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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