

# Tolonate™ HDT-LV

Low viscosity

## Description

- Low viscosity, solvent-free aliphatic polyisocyanate based on Hexamethylene Diisocyanate trimer (HDI homopolymer).

## Suggested Uses

- High solids two-component polyurethane coatings and varnishes.
- Solventfree polyurethane systems.
- Exterior protective coatings for automotive OEM, industrial machinery, plastic parts and car repair....etc.
- Intermediate for prepolymer synthesis.

## Specifications

**(valid for the product manufactured in Pont-de-Claix, France and Freeport, Texas, USA)**

Colour	≤ 40 HAZEN (APHA)
Viscosity at 25°C	1200 ± 300 mPa.s
NCO (on delivery form)	23.0 ± 1.0 %
Hexamethylene diisocyanate monomer (HDI)	< 0.2 %

The analytical methods are available upon request

## Physical Properties

Appearance	Clear liquid
Solids content	100% approx.
Bulk density at 25°C	1160 kg/m <sup>3</sup> approx.
Weight per US gallon	9.68 lbs approx.
Flash point (closed cup)	> 120°C
Equivalent weight (on delivery form)	183 g approx.

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## Solubility

Soluble in esters, ketones, aromatic hydrocarbons. In most cases, esters/aromatic hydrocarbon mixtures are used. It is recommended to use "urethane grade" solvents for the dilution (with water content below 300 ppm).

## Applications

- Tolonate™ HDT-LV is typically used as a crosslinker of hydroxylated polymers, especially polyesters and polyacrylic polyols, to prepare two-component polyurethanes coatings or elastomers, showing excellent outdoor durability and mechanical properties in conjunction with outstanding resistance to solvents, abrasion and chemicals.
- Due to its low viscosity, Tolonate™ HDT-LV is used to prepare formulations with higher solids content, compared to standard HDI biurets and trimers. It is delivered not diluted with any solvent, which gives a higher degree of formulation freedom.

## Packaging and transport

### Packaging (please contact our sales team for more details)

- US origin: 225 kg net metallic drum
- France origin: deliveries of 900 kg net weight pallets (4 drums of 225 kg net weight).
- Other packaging: upon request

### Transport

- Not regulated. For more precise details, please refer to the safety data sheet

## Storage conditions and shelf-life

- Tolonate™ HDT-LV is sensitive to moisture and should be kept in its original container or in a volume tank under dry nitrogen blanketing, for example.
- Appropriate storage for 2 years does not normally affect the product in any way if it is stored in its sealed original drums in proper storage conditions, at temperatures below 40°C.

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## Inflammability and safety instructions

- Before handling this product please refer to its safety data sheet

### warning to users

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