Product data sheet

Tolonate™ HDT-LV2

Low viscosity

Description

- Solvent free, very low viscosity aliphatic polyisocyanate based on Hexamethylene Diisocyanate trimer (HDI homopolymer). This product is supplied at 100 % solids and is designed to reduce volatile organic compounds (VOC) emissions of the formulations.

Suggested Uses

- Very high solids low VOC two component (2K) polyurethanes coatings and varnishes.
- Solventfree and waterborne polyurethane systems.
- Polyurethane resin synthesis intermediates.

Specifications

Colour	≤ 40 HAZEN (APHA)
Viscosity at 25°C	600 ± 150 mPa.s
NCO (on delivery form)	23.0 ± 1.0 %
Hexamethylene diisocyanate monomer (HDI)	< 0.5 %

The analytical methods are available upon request

Physical Properties

Appearance	Clear liquid
Solids content	100% approx.
Bulk density at 25°C	1131 kg/m^3 approx.
Weight per US gallon	9.43 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

- Like Tolonate™ HDT-LV, Tolonate™ HDT-LV2 is used as a cross-linker of hydroxylated polymers, notably polyesters and polyacrylates, in the preparation of two component polyurethane systems showing excellent outdoor durability and mechanical properties in conjunction with outstanding resistance to solvents, abrasion and chemicals.
- Because of its very low viscosity Tolonate™ HDT-LV2 can be used in higher solids systems than other trimers or biurets and can also be used in solvent-free and waterborne two-component polyurethane coatings.

Packaging and transport

Packaging (please contact our sales team for more details)

- US origin: 225 kg net metallic drum
- France and Thailand 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-LV2 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 9 months does not normally affect the product in any way if it is stored in its sealed original drums in proper storage conditions at 25°C.

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Flammability and safety instructions

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

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