

Tolonate™ HDT

Description

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

Suggested Uses

- High solids two-component polyurethane coatings and varnishes.
- Exterior protective coatings for automotive, industrial machinery, plastic parts and car repair.

Specifications

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

| | |
|--|-------------------|
| Colour | ≤ 40 HAZEN (APHA) |
| Viscosity at 25°C | 2400 ± 400 mPa.s |
| NCO (on delivery form) | 22.0 ± 0.5 % |
| 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 ³ approx. |
| Weight per US gallon | 9.68 lbs approx. |
| Flash point (closed cup) | > 120°C |
| Equivalent weight (on delivery form) | 191 g approx. |

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).

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Applications

- Tolonate™ HDT is typically used as a crosslinker of hydroxylated polymers, especially polyesters and polyacrylic polyols, to prepare two-component polyurethanes coatings showing excellent outdoor durability and mechanical properties in conjunction with outstanding resistance to solvents, abrasion and chemicals.
- Tolonate™ HDT 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 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.

Inflammability and safety instructions

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

warning to users

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