

HDI trimer BASF HI-190

ABOUT:

Aliphatic polyisocyanate based on isocyanurate-modified hexamethylene diisocyanate (HDI). Exhibits excellent weather and chemical resistance, non-yellowing and physical properties. It is an approximately 90% solids solution in a 1:1 blend of n-butyl acetate and Solvesso 100. Can be diluted with esters, ketones, glycolether acetates or with aromatic hydrocarbons. Used to crosslink most hydroxy-containing resins and hydroxy functional polyesters. Recommended for the formulation of lightfast and weather-resistant two-pack polyurethane coatings. Suitable for interior & exterior general industrial metal coating, plastic component coating, wood coatings for floor, furniture or millwork, and automotive OEM or refinish applications. It is listed with TSCA, EPCRA 311/312 and EPCRA 313.

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|----------------------|---|
| Product Type | Polyurethanes (PU) > PU-Prepolymers > Isocyanates > HDI-based |
| Chemical Composition | Polyisocyanate based on isocyanurate-modified hexamethylene |

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|-------------------------------|---|
| | diisocyanate (HDI) |
| Physical Form | Liquid |
| Appearance | Colorless to slightly yellow |
| Product Status | COMMERCIAL |
| Applications/ Recommended for | <p>Coatings</p> <p>Coatings Markets > Automotive OEM > Soft-feel interior</p> <p>Coatings Markets > Automotive refinishing > Enamels > Two components systems</p> <p>Coatings Markets > General Industrial /Maintenance</p> <p>Coatings Markets > Metals</p> <p>Coatings Markets > Plastic coating</p> <p>Coatings Markets > Wood & Furniture Coatings > Furniture/ interior decoration</p> |
| Labels/Agency Rating | TSCA, |

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| | <p>EPCRA 311/312, EPCRA 313</p> |
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Properties:

| Property | Value & Unit | Test Condition | Test Method |
|------------------------------|------------------------|----------------|---------------------|
| Isocyanate Content | 19.3 - 20.3 % | | |
| Viscosity | 450 - 650 cP | At 23°C | |
| Color, APHA < 60 | < 60 | | |
| Solid Content | 89 - 91 % | | |
| Shear Rate D | 1000 s-1 | | |
| Density | 1.13 g/cm ³ | At 20°C | |
| Isocyanate Equivalent Weight | 212 | | |
| Melting Point | -25 °C | | |
| Boiling Point | 160 °C | | |
| Flash Point | 51.5 °C | | DIN EN ISO 13736 |
| Lower Explosion Limit | 1.0 % | By Volume | |

| | | | |
|------------------------------|-----------------|-----------|-----------|
| Upper Explosion Limit | 7.5 % | By Volume | |
| Auto-ignition Temperature | 430 °C | | DIN 51794 |
| Vapour Pressure | < 50 mbar | | |
| Viscosity | 450 - 650 mPa-s | At 23°C | DIN 53019 |

| Solubility | Element | Test Condition | Test Method |
|------------|--------------------------|----------------|-------------|
| Soluble in | Esters | | |
| Soluble in | Ketones | | |
| Soluble in | Glycolether Acetates | | |
| Soluble in | Aromatic Hydrocarbons | | |

Storage and Transportation:

STORAGE: It is recommended to store in a dry and cool area with proper ventilation.

Packaging:

200KG/drum Please fasten the packaging cover as soon as possible after original packaging to prevent the mixing of other substances

such as moisture and other substances that may affect the performance of the product. Do not inhale dust, avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothes separately and reuse them after washing. Maintain good hygiene practices.

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