

Isodur XDI

Compound: M-Xylylene diisocyanate (XDI) ≥99.5%

Material Definition

Solvent: None (neat liquid)

Appearance: Colorless, clear liquid

CAS No: 3634-83-1

Chemical Formula: C₈H₁₀N₂O₂

NCO content: Approx. 41.4%

Density @20°C: 1.202 g/cm³

Viscosity @20°C: 4 mPa·s

Freezing Point: 5.6°C

Melting Point: 10–12°C

Flash Point: 185°C

Refractive Index (n_{D20}): 1.429

Hydrolyzable Chlorine: < 0.03%

Application

Isodur XDI is used as a curing agent for light-stable polyurethanes, especially in applications requiring high weather resistance and optical clarity. Typical use cases include:

- Aliphatic PU coatings for plastics and metals
- Polyurethane resins for high-performance optical lenses
- Specialty adhesives and elastomers with non-yellowing properties

Usage Information

Isodur XDI is typically reacted with polyols to form prepolymers or directly cured formulations.

Due to its low viscosity and high purity, it enables accurate stoichiometry and good processing characteristics.

Handling, Storage, and Packaging

Isodur XDI is moisture-sensitive. It should be stored in tightly sealed original containers at 10–25°C in a dry, well-ventilated area. Crystallization may occur at low temperatures but is reversible on warming. Use only under inert gas blanketing for long-term storage. Appropriate safety and handling precautions must be followed.

Available pack sizes for Isodur XDI:

- 180 kg drums
- 0.75kg Aluminium bottles

Regulatory Information

EU REACH registered: No

GHS Classification: Harmful by inhalation, sensitizer (H334)

Non-yellowing: Yes (aromatic but light-stable)

VOC status: Non-volatile as supplied

Substances of concern

Tin organic compounds present: **no**

Conflict minerals: **no**

3TG (section 1502 of Dodd-Frank Act): **no**

Cobalt/Mica 2017/821/EU: **no**

Chromium VI content: **no**

Chromium reducer: **no**

Biocide/s 528/2012/EU: **no**

Detergents 648/2004/EU: **no**

Nano materials (particle size <100nm): **no**

Fluorinated greenhouse gases 517/2014/EU: **no**

RoHS/GADSL/WEEE substances: **no**

Dual use 428/2009/EU: **no**

Rotterdam convention PIC 649/2012/EU: **no**

Montreal Protocol ODP 1005/2009/EU: **no**

Availability

- Americas (United States, Canada, South America)
- APAC (Asia-Pacific)

- ANZ (Australia, New Zealand)
- EU (European Union)
- PRC (People's Republic of China)
- UK (United Kingdom)

Disclaimer / Conditions

Revision: 2025-05-15 / f7a6

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Stated storage and shelf life times are minimum guaranteed values for a period starting on the day of shipment. After this period has expired, the product requires additional quality control testing but may very well still be within specification. For more information, refer to our [Shelf Life Policy](#).

For updates on product information, please check this web page regularly:

<https://kautschuk.com/products/adhesives/isodur-xdi>