

Global Toluene Diisocyanate (TDI) Market Outlook to 2027

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Abstracts

Toluene diisocyanate (TDI) is an aromatic diisocyanate, a clear, pale yellow liquid with a sharp, pungent odor, insoluble in water, and miscible with the most common organic solvents. According to BlueQuark Research & Consulting, the global Toluene Diisocyanate (TDI) market is expected to witness a significant growth rate during the forecasted period. Factors like increasing demand for foams due to their excellent properties such as durability, better insulation, easy recycling, high resistance towards chemicals, and thermal stability at high temperatures are expected to drive the Toluene diisocyanate (TDI) market in the forecasted period. Further, the surging demand for toluene diisocyanate (TDI) in automotive industries (TDI is worn to make automobile parts lighter) enhances vehicle fuel efficiency and thus energy conservation. Furthermore, the rising number of constructions that promote energy-efficient structures is moving toward building strategies that deliver energy reduction and performance in the long run. However, overexposure to TDI may lead to lung and skin sensitization between workers and has been documented to cause lung damage. In severe cases, fatal reactions are anticipated to hamper the rise of the global toluene diisocyanate (TDI) market.

Toluene diisocyanate (TDI) is mainly used to make polyurethane products, such as rigid and flexible foams, coatings, adhesives, sealants, and elastomers.

Foam has been extensively used in various industrial applications due to its reliability in the sector. The increasing demand for flexible foams used in bedding and furniture, carpet underlay, and packaging applications is likely to drive the market. Besides the excellent properties, reducing the cost of raw material is a significant advantage in using these materials. Flexible foam is one of the most positive materials due to its outstanding overall performance, like durability, better insulation, high resistance

towards chemicals, thermal stability, and easy recycling at high temperatures for various applications. The wood/furniture segment held the most significant share in recent times. It is predicted to dominate the market during the forecast period due to the increasing use of TDI and flexible polyurethane foam in applications, including carpets and underlay. They are also used to manufacture office furniture, home furniture, and public seating. Growing furniture demand owing to surging purchasing power combined with a growth in the durability and longevity of the products is awaited to increase the extension of the foam. Polyurethane-based foams are worn as insulating materials in homes, refrigerators, and various other purposes. With the growing number of building codes that encourage energy-efficient structures, home builders and consumers are constantly moving towards building strategies that deliver performance and energy savings in the long run. Increasing demand for luxurious beds, sofas, and chairs resulted in the high consumption of polyurethane foams over the past few years, and the market is anticipated to continue over the forecasted period. All the factors mentioned above are awaited to drive the toluene diisocyanate market during the forecast period.

The Asia-Pacific is expected to the market due to the continuous growth and demand for toluene diisocyanate (TDI) from end-user industries, mostly furniture and interiors, building and construction, and automotive from developing countries China and India. Further, growing demand from the industrial and infrastructural sectors leads to the production of paints and coatings, hence propelling the toluene diisocyanate (TDI) in the Asia Pacific region. Increasing output of luxurious automobiles coupled with rising competition in the automobile industry encouraging polyurethane foams in vehicles is expected to drive toluene diisocyanate market growth over the forecast period. Growing demand for sealants and coatings to reduce leakages is expected to impact TDI market growth positively. Increasing demand for rigid foams in the packaging industry and subsequent development of the packaging sector are anticipated to drive market growth. Toluene Diisocyanates (TDI) is a colorless and flammable liquid chemical. It is worn to react with alcohol-based polymer to form polyurethane products. TDI is manufactured by the toluene, nitric acid, and sulfuric acid mixture synthesis process. It is further reacted with phosgene to manufacture TDI, and the product application is majorly found in industrial and consumer goods. Paints & coatings are proposed to be the second most desiring application of the product in the construction Industry. Furthermore, isocyanate functional groups in Toluene Diisocyanate form urethane when it reacts with hydroxyl. Besides this, TDI or Toluene Diisocyanate is also used to boost octane in gasoline. On the other hand, some minor chemical applications include benzoic acid, phenol, and nitrobenzene. Hence, all such market trends are awaited to drive the demand for the toluene diisocyanate in the world market during the forecast

period.

The global Toluene Diisocyanate market is segmented. The key players in the market are SIMEL Chemical Industry Co., Ltd., BASF SE, Tosoh Corporation, Covestro AG, and TSE Industries, Inc., among others.

In April 2020, BASF and its long-time partner Shandong INOV Polyurethane had signed a framework agreement designed to serve rising demand from several industries in China and overseas. As part of the deal, the companies will expand capacities of toluene diisocyanate (TDI), diphenylmethane diisocyanate (MDI), and polytetrahydrofuran (PolyTHF).

Global Toluene Diisocyanate (TDI) Market report provides deep insight into the current and future state of the Toluene Diisocyanate (TDI) market size across various regions. The study comprehensively analyzes the Toluene Diisocyanate (TDI) market by segmenting based on geography, by Application (Foams, Coatings, Adhesives and Sealants, Elastomers, and Others), by End-user Industry (Furniture and Interiors, Building and Construction, Electronics, Automotive, Packaging, and Others), Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints that influence growth in detail. The study covers & includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers an extensively researched competitive landscape section with profiles of prominent companies, including their market shares and projects.

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