

Global Methylene Diphenyl Di-Isocyanate (MDI) Market Outlook to 2027

<https://marketpublishers.com/r/G2CBCEAD9713EN.html>

Date: January 2022

Pages: 199

Price: US\$ 4,490.00 (Single User License)

ID: G2CBCEAD9713EN

Abstracts

Methylene diphenyl diisocyanate (MDI) is essential in producing polyurethanes for several applications, including the manufacture of rigid polyurethane foams used for home and refrigerator insulation. According to BlueQuark Research & Consulting, the global Methylene Diphenyl Di-Isocyanate (MDI) market is expected to witness a considerable growth rate during the forecasted period. Factors like the market for Methylene diphenyl diisocyanate (MDI) are expected to be driven by the development of the construction industry, mainly with a rise in residential construction globally. Further, the growing demand for the utilization of polyurethane foams for insulation is awaited to drive the construction sector, which will propel the MDI market in the forecasted period. Furthermore, the growing automotive industry is expected to further drive the Methylene diphenyl diisocyanate (MDI) market due to its benefit in terms of comfort, protection, and energy conservation. However, over-exposure to Methylene diphenyl diisocyanate (MDI) can conduct to specific health issues, including respiratory tract irritation, asthma, dermatitis, etc., which is likely to restraint the growth of the Methylene diphenyl diisocyanate (MDI) market during the forecasted period.

Methylene diphenyl diisocyanate (MDI) is used in consumer and industrial applications due to the variations in the types of polyurethane like flexible, rigid, rugged, stiff elastomers. MDI is used in the manufacture of Flexible Foam. Applications/Products manufactured from flexible foams are widely used in numerous industries due to their versatility, range of potential utilities, and steadily excellent qualities. MDI-based Flexible Foam is used as cushioning for various consumer and commercial products, including furniture, carpet cushion, transportation, bedding, packaging, textiles, and fibers.

The construction industry is expected to drive the market due to the high usage of rigid

polyurethane foam as roof and wall insulation, insulated panels, and gap fillers around doors and windows. Further, this rigid polyurethane foam has significant environmental benefits, including increased energy efficiency and reduced project weight. Buildings and construction is the most important end-user industry for the MDI market, where it is used in various household, commercial, and industrial applications. One of the most significant applications is using rigid PU foam as wall and roof insulation, gap fillers, and insulated panels for the space around doors and windows. Polyiso laminate board stock is primarily worn in roofing and wall insulation and is significant for the most share of total rigid PU foam in construction applications. Foams include spray, pour-in-place, and one-component foams. Rigid PU foam has substantial environmental benefits, including surge energy efficiency and reduced project weight. Given the general use of rigid PU foam in construction, these savings are multiplying at an increasing rate globally. The upcoming infrastructural projects (especially in the emerging economies), such as roadways, bridges, storage tanks, warehouses, and other buildings, are expected to offer a new avenue for growth in the global market. The promotion of zero energy buildings continues to be the primary driver for the PU market, thereby driving the MDI market in the construction industry. Numerous buildings are poorly insulated in Asia, especially in the developing markets of Southeast Asia, China, and India, thereby depicting the immense growth potential for thermal insulation materials in buildings.

The Asia-Pacific is expected to lead the market due to the rising demand from the industries, such as construction, electronic appliances, furniture, and automotive in countries like China, India, and Japan. The usage of MDI is increasing in the region. Further, in China, MDI is primarily used for polyurethane as the country is the biggest producer and consumer of polyurethane. MDI is used mainly for polyurethane in China, and the country is the world's largest producer and consumer of polyurethane products. China's demand for polyurethane products accounts for more than 45% of the global market and is awaited to maintain a growth rate of around 10% over the next couple of years. The Chinese central government hopes that the country's automobile output will reach 30 million units by 2020 and 35 million by 2025. As polyurethanes are widely used in vehicles manufacturing and offer benefits in terms of protection, comfort, and energy conservation, it is a wonder that this considerable growth will positively impact the MDI market in China. Polyurethanes are produced by reacting isocyanates with polyols, and one of the essential isocyanates utilized for manufacturing in methylene diphenyl diisocyanate (MDI) and toluene diisocyanate (TDI). Polyurethane comes about in two types that are polyurethane elastomers and polyurethane foams. Foams can be categorized as rigid and flexible, and these foams have applications in various industries like bedding, automotive, and furniture, thus creating product demand. MDI

chemicals are worn in commercial and consumer applications such as transportation products, rubber & plastic products, lubricants, fuel additives, paints & coatings, and greases. Apart from conventional utilized as commercial applicators to insulate roofs and walls of buildings, they have other approaches such as arts arena sculpture, mold making, and designing movie and theatre sets. Polyurethane coatings seal concrete, waterproof walls, and refinish floors. MDI demand in China is anticipated to rise due to the availability of low-cost raw material labor & land and a moderately stringent regulatory framework. Growing end-use industries like construction, electronics, and automotive are also believed to drive the methylene diphenyl diisocyanate market in the region over the forecasted period.

The global Methylene Diphenyl Di-Isocyanate market is consolidated. Some of the key players in the market are Wanhua Chemical Group Co. Ltd, BASF SE, Covestro AG, Huntsman International LLC, and Dow.

In January 2020, BASF announced to increase the prices for its Lupranate® MDI (Methylene Diphenyl Diisocyanate) primary products by USD 200 per metric ton in ASEAN and South Asia. These price adjustments are necessary due to higher raw material costs and increased costs of transportation, energy, and regulatory efforts.

Global Methylene Diphenyl Di-Isocyanate (MDI) Market report provides deep insight into the current and future state of the Methylene Diphenyl Di-Isocyanate (MDI) market across various regions. The study comprehensively analyzes the Methylene Diphenyl Di-Isocyanate (MDI) market by segmenting based on geography, by Application (Rigid Foam, Flexible Foam, Coatings, Elastomer, Adhesive and Sealant, and Other Applications), End-user Industry (Construction, Furniture and Interiors, Electronics and Appliances, Automotive, Footwear, and Other End-user Industries). 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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