

Global Bio-based MDI Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based MDI market size was valued at US\$ 91.68 million in 2025 and is forecast to a readjusted size of US\$ 360 million by 2032 with a CAGR of 21.5% during review period.

Bio-Based MDI refers to methylene diphenyl diisocyanate manufactured using renewable, biomass-derived, or bio-circular feedstocks, with the renewable characteristics incorporated through physical segregation or certified mass-balance allocation. The market primarily covers polymeric MDI, monomeric MDI, modified MDI, and MDI-based resin grades supplied with verifiable renewable-feedstock attribution. Its industrial production retains the established MDI process chain, in which aromatic intermediates are converted into aniline, condensed with formaldehyde to produce methylene diphenyl diamine, and subsequently phosgenated into MDI. Renewable substitution generally occurs in upstream hydrocarbon, benzene, biomethane, or energy inputs, allowing Bio-Based MDI to maintain processing properties broadly comparable with conventional MDI. Key purchasing specifications include MDI product form, NCO content, viscosity, renewable attribution percentage, product carbon footprint, certification scheme, and supply format. Bio-Based MDI is principally used in rigid and flexible polyurethane foams, building and refrigeration insulation, engineered-wood binders, adhesives, sealants, elastomers, automotive components, footwear, synthetic leather, and other polyurethane systems requiring lower attributed lifecycle emissions.

Key Findings

Global Bio-Based MDI Shipments Reached Approximately 27,000 Metric Tons In 2025

The Weighted Average FOB Price Was Approximately USD 3,300 Per Metric Ton

Certified Mass-Balance MDI Was The Dominant Commercial Product Route Across The Market

Market Trends

The Bio-Based MDI market is evolving from isolated sustainability projects into a structured low-carbon product category integrated within existing MDI production and polyurethane formulation systems. Certified mass balance has become the principal commercialization route because it enables producers to introduce renewable or bio-circular feedstocks into large, technically complex production networks while retaining conventional product specifications and downstream processing compatibility. Product development is progressing from general biomass-balanced polymeric MDI toward differentiated monomeric, modified, automotive seating, insulation, adhesive, and engineered-wood grades with specified renewable attribution levels and product carbon-footprint data. Suppliers are also moving beyond certification alone by combining renewable feedstock allocation with lower-emission energy, carbon-footprint verification, customer-specific documentation, and application development. Downstream customers increasingly require materials that can be introduced without reformulation, production-line modification, or additional performance qualification. Consequently, future product competition will focus less on whether certified Bio-Based MDI can be supplied and more on the renewable attribution percentage, feedstock origin, audited carbon reduction, regional availability, documentation quality, and the supplier's ability to support finished-product environmental claims.

Market Dynamics

Drivers

Demand growth is being driven by the decarbonization targets of construction-material, appliance, automotive, furniture, adhesive, footwear, and synthetic-leather customers. Bio-Based MDI offers a relatively direct method of lowering attributed upstream emissions because it can generally replace conventional MDI without materially changing polyurethane processing conditions or finished-product performance.

European building regulations are also increasing attention to embodied carbon and lifecycle global warming potential, strengthening the commercial relevance of lower-carbon insulation boards, adhesives, sealants, and composite-wood materials. Large downstream groups are increasingly incorporating product carbon footprints and Scope 3 emissions into procurement decisions, supporting contract demand for certified renewable-attributed MDI.

Restraints

The principal restraints are the limited availability and price volatility of qualified renewable feedstocks, certification and auditing expenses, and the premium customers must pay relative to conventional MDI. Bio-Based MDI remains connected to the conventional MDI cost structure, including benzene, aniline, chlorine, energy, logistics, and plant-utilization rates, while adding renewable-feedstock and chain-of-custody costs. Adoption is also constrained by differences in how customers, regulators, and procurement systems interpret mass-balance claims. Because certified and conventional feedstocks may be physically mixed during production, the allocated renewable percentage cannot necessarily be confirmed by testing an individual product batch, making traceability documentation and claim wording critical to commercial acceptance.

Opportunities

The strongest opportunities lie in applications where MDI represents a limited portion of finished-product cost but contributes materially to the product carbon footprint. Building insulation, refrigeration equipment, cold-chain panels, engineered wood, reactive adhesives, premium footwear, automotive seating, and export-oriented synthetic leather are therefore attractive early-adoption markets. Additional opportunities are emerging from higher renewable attribution grades, bio-circular feedstocks derived from waste and residues, customer-specific product carbon-footprint solutions, and integrated polyurethane systems combining Bio-Based MDI with renewable or recycled polyols. Expansion of certified production sites in Asia and North America could also reduce regional freight requirements and improve the availability of locally sourced low-carbon polyurethane raw materials.

Challenges

The industry must establish consistent terminology and credible environmental claims as the distinction among physically bio-based, biomass-balanced, bio-attributed, and bio-circular products becomes increasingly important. Suppliers face the challenge of scaling renewable-feedstock procurement without competing excessively with fuels, food-related resources, or other chemical applications. The market is also exposed to conventional MDI oversupply and cyclical price declines, which can widen the relative green premium and delay customer conversion. Long-term commercial success will depend on independently audited allocation systems, comparable product carbon-footprint boundaries, stable contractual pricing mechanisms, and the ability to demonstrate measurable downstream value rather than relying solely on certification labels.

Industry Chain Analysis

The upstream chain begins with agricultural and forestry residues, waste oils, biological intermediates, bio-naphtha, biomethane, renewable electricity, and other certified alternative inputs. These resources are converted through refining and basic chemical processes into renewable-attributed aromatic feedstocks, benzene, aniline precursors, energy, and supporting chemicals. Conventional inputs such as formaldehyde, chlorine, carbon monoxide, catalysts, and process utilities remain essential. Feedstock origin, conversion losses, certification eligibility, and chain-of-custody accounting determine the amount of renewable attribute that can ultimately be assigned to Bio-Based MDI. Renewable raw materials and certification represent incremental costs, but the underlying MDI value chain remains dominated by integrated plant scale, energy efficiency, operating rates, and access to aromatic intermediates.

At the midstream stage, integrated chemical producers synthesize, separate, blend, and modify MDI before assigning certified renewable attributes to polymeric, monomeric, or modified grades. Value creation is concentrated in production technology, highly regulated chemical handling, operational reliability, certification management, product carbon-footprint calculation, and application support. Downstream system houses and formulators combine Bio-Based MDI with polyols, catalysts, blowing agents, fillers, and additives to produce polyurethane systems. Finished-product manufacturers capture additional value by converting the lower-carbon raw-material attributes into differentiated insulation, adhesives, wood panels, automotive parts, footwear, and other products supported by auditable environmental documentation.

Segment Insights

Polymeric MDI represents the principal commercial product segment because rigid polyurethane and polyisocyanurate insulation, refrigeration systems, composite-wood binders, and construction adhesives provide relatively clear carbon-reduction value propositions and established high-volume processing platforms. Monomeric and modified MDI grades form a smaller but strategically important segment serving elastomers, coatings, adhesives, automotive seating, footwear, and specialized polyurethane systems. These products generally require more precise viscosity, functionality, purity, and processing specifications, creating opportunities for differentiated pricing and closer technical cooperation between suppliers and customers.

By renewable implementation route, certified mass-balance Bio-Based MDI accounts for the dominant share of current commercial supply. Physically segregated MDI made from directly traceable biological carbon remains limited because the aromatic MDI chain involves multiple integrated conversion stages and large production assets. Grades with higher renewable attribution, verified bio-circular feedstocks, and reduced cradle-to-gate carbon footprints are expected to gain importance in premium applications. However, customers will continue to select products based on a combination of technical performance, documented emission reduction, availability, and total formulation cost rather than renewable percentage alone.

Downstream Market Opportunities

Construction and thermal insulation constitute the most visible initial market opportunity because rigid polyurethane and polyisocyanurate systems use substantial quantities of MDI and face growing scrutiny of embodied emissions. Refrigerators, freezers, cold rooms, refrigerated transportation, and industrial insulation provide a related opportunity where energy-efficiency benefits can be combined with lower attributed material emissions. Engineered wood and reactive adhesive applications are commercially attractive because the green premium can be distributed across a comparatively high-value finished product. Automotive interiors, seating, footwear, synthetic leather, coatings, sealants, and elastomers offer additional growth potential as brand owners introduce product-level carbon targets and certified material procurement requirements.

Regional Insights

Europe currently has the clearest commercial environment for Bio-Based MDI, supported by established mass-balance certification systems, mature polyurethane value chains, corporate carbon-reduction commitments, and increasing regulatory attention to lifecycle emissions from buildings and construction materials. Demand is concentrated in insulation, construction adhesives, engineered wood, appliances, and premium industrial formulations. The planned disclosure of lifecycle global warming potential for new buildings is expected to improve demand visibility for polyurethane materials with verified product carbon-footprint reductions, although adoption rates will differ among countries and applications.

North America is developing through customer-specific projects in insulation boards, recreational surfacing, adhesives, appliances, and domestically certified polyurethane supply chains. Asia-Pacific has substantial long-term expansion potential because it combines major MDI production capacity with large footwear, synthetic-leather, appliance, automotive, and export-manufacturing industries. China has established certified MDI production capability, while demand development is increasingly linked to multinational customer requirements and the carbon documentation of exported finished products. The market remains too early for a reliable definitive ranking of regional growth rates, and actual expansion will depend on local renewable-feedstock availability, customer willingness to pay, and the recognition of mass-balance claims.

Competitive Landscape Analysis

The Bio-Based MDI market has a highly concentrated supply structure because commercial production depends on existing world-scale MDI assets, integrated aromatic intermediates, complex process safety capabilities, and internationally recognized chain-of-custody certification. The verified competitive group consists of BASF, Covestro, Dow, Huntsman, and Wanhua Chemical. BASF has established a differentiated offering through Lupranat ZERO and biomass-balanced grades with detailed product carbon-footprint positioning. Covestro maintains a broad portfolio of bio-attributed and bio-circular Desmodur CQ products covering multiple renewable attribution levels and applications. Dow supplies REN-branded MDI grades and has expanded certified production availability in North America. Huntsman combines certified mass-balance MDI capability with downstream MDI resin development for engineered wood and other applications. Wanhua Chemical has obtained ISCC PLUS certification for MDI and provides an important certified supply platform in China, although publicly disclosed Bio-Based MDI branding and renewable attribution specifications remain more limited. Competitive differentiation is expected to center on certified feedstock access, regional

supply coverage, product breadth, carbon-footprint documentation, application development, and the ability to maintain commercially acceptable premiums over conventional MDI rather than on nominal MDI capacity alone.

Report Scope

This report is a detailed and comprehensive analysis for global Bio-based MDI market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bio-based MDI market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based MDI market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based MDI market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based MDI market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bio-based MDI

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bio-based MDI market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF SE, Covestro AG, Dow Inc., Huntsman Corporation, LANXESS, Wanhua Chemical Group Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Bio-based MDI market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Polymeric MDI

Monomeric MDI

Modified MDI

Others

Market segment by Feedstock Origin

Lignin-based MDI

Sugar/Carbohydrate-derived MDI

Others

Market segment by Renewable Attribute Route

Mass Balance

Bio-Circular Mass Balance

Physically Segregated

Others

Market segment by Application

Construction Engineering

Automobile Manufacturing

Shoe Manufacturing

Household Goods

Others

Major players covered

BASF SE

Covestro AG

Dow Inc.

Huntsman Corporation

LANXESS

Wanhua Chemical Group Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Bio-based MDI product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based MDI, with price, sales quantity, revenue, and global market share of Bio-based MDI from 2021 to 2026.

Chapter 3, the Bio-based MDI competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based MDI breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Bio-based MDI market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based MDI.

Chapter 14 and 15, to describe Bio-based MDI sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Bio-based MDI Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Polymeric MDI

1.3.3 Monomeric MDI

1.3.4 Modified MDI

1.3.5 Others

1.4 Market Analysis by Feedstock Origin

1.4.1 Overview: Global Bio-based MDI Consumption Value by Feedstock Origin: 2021 Versus 2025 Versus 2032

1.4.2 Lignin-based MDI

1.4.3 Sugar/Carbohydrate-derived MDI

1.4.4 Others

1.5 Market Analysis by Renewable Attribute Route

1.5.1 Overview: Global Bio-based MDI Consumption Value by Renewable Attribute Route: 2021 Versus 2025 Versus 2032

1.5.2 Mass Balance

1.5.3 Bio-Circular Mass Balance

1.5.4 Physically Segregated

1.5.5 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Bio-based MDI Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Construction Engineering

1.6.3 Automobile Manufacturing

1.6.4 Shoe Manufacturing

1.6.5 Household Goods

1.6.6 Others

1.7 Global Bio-based MDI Market Size & Forecast

1.7.1 Global Bio-based MDI Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Bio-based MDI Sales Quantity (2021-2032)

1.7.3 Global Bio-based MDI Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 BASF SE

2.1.1 BASF SE Details

2.1.2 BASF SE Major Business

2.1.3 BASF SE Bio-based MDI Product and Services

2.1.4 BASF SE Bio-based MDI Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 BASF SE Recent Developments/Updates

2.2 Covestro AG

2.2.1 Covestro AG Details

2.2.2 Covestro AG Major Business

2.2.3 Covestro AG Bio-based MDI Product and Services

2.2.4 Covestro AG Bio-based MDI Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Covestro AG Recent Developments/Updates

2.3 Dow Inc.

2.3.1 Dow Inc. Details

2.3.2 Dow Inc. Major Business

2.3.3 Dow Inc. Bio-based MDI Product and Services

2.3.4 Dow Inc. Bio-based MDI Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Dow Inc. Recent Developments/Updates

2.4 Huntsman Corporation

2.4.1 Huntsman Corporation Details

2.4.2 Huntsman Corporation Major Business

2.4.3 Huntsman Corporation Bio-based MDI Product and Services

2.4.4 Huntsman Corporation Bio-based MDI Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Huntsman Corporation Recent Developments/Updates

2.5 LANXESS

2.5.1 LANXESS Details

2.5.2 LANXESS Major Business

2.5.3 LANXESS Bio-based MDI Product and Services

2.5.4 LANXESS Bio-based MDI Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 LANXESS Recent Developments/Updates

2.6 Wanhua Chemical Group Co., Ltd.

2.6.1 Wanhua Chemical Group Co., Ltd. Details

- 2.6.2 Wanhua Chemical Group Co., Ltd. Major Business
- 2.6.3 Wanhua Chemical Group Co., Ltd. Bio-based MDI Product and Services
- 2.6.4 Wanhua Chemical Group Co., Ltd. Bio-based MDI Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Wanhua Chemical Group Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BIO-BASED MDI BY MANUFACTURER

- 3.1 Global Bio-based MDI Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Bio-based MDI Revenue by Manufacturer (2021-2026)
- 3.3 Global Bio-based MDI Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Bio-based MDI by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Bio-based MDI Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Bio-based MDI Manufacturer Market Share in 2025
- 3.5 Bio-based MDI Market: Overall Company Footprint Analysis
 - 3.5.1 Bio-based MDI Market: Region Footprint
 - 3.5.2 Bio-based MDI Market: Company Product Type Footprint
 - 3.5.3 Bio-based MDI Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Bio-based MDI Market Size by Region
 - 4.1.1 Global Bio-based MDI Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Bio-based MDI Consumption Value by Region (2021-2032)
 - 4.1.3 Global Bio-based MDI Average Price by Region (2021-2032)
- 4.2 North America Bio-based MDI Consumption Value (2021-2032)
- 4.3 Europe Bio-based MDI Consumption Value (2021-2032)
- 4.4 Asia-Pacific Bio-based MDI Consumption Value (2021-2032)
- 4.5 South America Bio-based MDI Consumption Value (2021-2032)
- 4.6 Middle East & Africa Bio-based MDI Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Bio-based MDI Sales Quantity by Type (2021-2032)
- 5.2 Global Bio-based MDI Consumption Value by Type (2021-2032)

5.3 Global Bio-based MDI Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Bio-based MDI Sales Quantity by Application (2021-2032)

6.2 Global Bio-based MDI Consumption Value by Application (2021-2032)

6.3 Global Bio-based MDI Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Bio-based MDI Sales Quantity by Type (2021-2032)

7.2 North America Bio-based MDI Sales Quantity by Application (2021-2032)

7.3 North America Bio-based MDI Market Size by Country

7.3.1 North America Bio-based MDI Sales Quantity by Country (2021-2032)

7.3.2 North America Bio-based MDI Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Bio-based MDI Sales Quantity by Type (2021-2032)

8.2 Europe Bio-based MDI Sales Quantity by Application (2021-2032)

8.3 Europe Bio-based MDI Market Size by Country

8.3.1 Europe Bio-based MDI Sales Quantity by Country (2021-2032)

8.3.2 Europe Bio-based MDI Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Bio-based MDI Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Bio-based MDI Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Bio-based MDI Market Size by Region

9.3.1 Asia-Pacific Bio-based MDI Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Bio-based MDI Consumption Value by Region (2021-2032)

- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Bio-based MDI Sales Quantity by Type (2021-2032)
- 10.2 South America Bio-based MDI Sales Quantity by Application (2021-2032)
- 10.3 South America Bio-based MDI Market Size by Country
 - 10.3.1 South America Bio-based MDI Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Bio-based MDI Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Bio-based MDI Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Bio-based MDI Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Bio-based MDI Market Size by Country
 - 11.3.1 Middle East & Africa Bio-based MDI Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Bio-based MDI Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Bio-based MDI Market Drivers
- 12.2 Bio-based MDI Market Restraints
- 12.3 Bio-based MDI Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Bio-based MDI and Key Manufacturers

13.2 Manufacturing Costs Percentage of Bio-based MDI

13.3 Bio-based MDI Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Bio-based MDI Typical Distributors

14.3 Bio-based MDI Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Bio-based MDI Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Bio-based MDI Consumption Value by Feedstock Origin, (USD Million), 2021 & 2025 & 2032

Table 3. Global Bio-based MDI Consumption Value by Renewable Attribute Route, (USD Million), 2021 & 2025 & 2032

Table 4. Global Bio-based MDI Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. BASF SE Basic Information, Manufacturing Base and Competitors

Table 6. BASF SE Major Business

Table 7. BASF SE Bio-based MDI Product and Services

Table 8. BASF SE Bio-based MDI Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. BASF SE Recent Developments/Updates

Table 10. Covestro AG Basic Information, Manufacturing Base and Competitors

Table 11. Covestro AG Major Business

Table 12. Covestro AG Bio-based MDI Product and Services

Table 13. Covestro AG Bio-based MDI Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Covestro AG Recent Developments/Updates

Table 15. Dow Inc. Basic Information, Manufacturing Base and Competitors

Table 16. Dow Inc. Major Business

Table 17. Dow Inc. Bio-based MDI Product and Services

Table 18. Dow Inc. Bio-based MDI Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Dow Inc. Recent Developments/Updates

Table 20. Huntsman Corporation Basic Information, Manufacturing Base and Competitors

Table 21. Huntsman Corporation Major Business

Table 22. Huntsman Corporation Bio-based MDI Product and Services

Table 23. Huntsman Corporation Bio-based MDI Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Huntsman Corporation Recent Developments/Updates

Table 25. LANXESS Basic Information, Manufacturing Base and Competitors

Table 26. LANXESS Major Business

Table 27. LANXESS Bio-based MDI Product and Services
Table 28. LANXESS Bio-based MDI Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. LANXESS Recent Developments/Updates
Table 30. Wanhua Chemical Group Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 31. Wanhua Chemical Group Co., Ltd. Major Business
Table 32. Wanhua Chemical Group Co., Ltd. Bio-based MDI Product and Services
Table 33. Wanhua Chemical Group Co., Ltd. Bio-based MDI Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Wanhua Chemical Group Co., Ltd. Recent Developments/Updates
Table 35. Global Bio-based MDI Sales Quantity by Manufacturer (2021-2026) & (Tons)
Table 36. Global Bio-based MDI Revenue by Manufacturer (2021-2026) & (USD Million)
Table 37. Global Bio-based MDI Average Price by Manufacturer (2021-2026) & (US\$/Ton)
Table 38. Market Position of Manufacturers in Bio-based MDI, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 39. Head Office and Bio-based MDI Production Site of Key Manufacturer
Table 40. Bio-based MDI Market: Company Product Type Footprint
Table 41. Bio-based MDI Market: Company Product Application Footprint
Table 42. Bio-based MDI New Market Entrants and Barriers to Market Entry
Table 43. Bio-based MDI Mergers, Acquisition, Agreements, and Collaborations
Table 44. Global Bio-based MDI Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 45. Global Bio-based MDI Sales Quantity by Region (2021-2026) & (Tons)
Table 46. Global Bio-based MDI Sales Quantity by Region (2027-2032) & (Tons)
Table 47. Global Bio-based MDI Consumption Value by Region (2021-2026) & (USD Million)
Table 48. Global Bio-based MDI Consumption Value by Region (2027-2032) & (USD Million)
Table 49. Global Bio-based MDI Average Price by Region (2021-2026) & (US\$/Ton)
Table 50. Global Bio-based MDI Average Price by Region (2027-2032) & (US\$/Ton)
Table 51. Global Bio-based MDI Sales Quantity by Type (2021-2026) & (Tons)
Table 52. Global Bio-based MDI Sales Quantity by Type (2027-2032) & (Tons)
Table 53. Global Bio-based MDI Consumption Value by Type (2021-2026) & (USD Million)
Table 54. Global Bio-based MDI Consumption Value by Type (2027-2032) & (USD Million)

Table 55. Global Bio-based MDI Average Price by Type (2021-2026) & (US\$/Ton)

Table 56. Global Bio-based MDI Average Price by Type (2027-2032) & (US\$/Ton)

Table 57. Global Bio-based MDI Sales Quantity by Application (2021-2026) & (Tons)

Table 58. Global Bio-based MDI Sales Quantity by Application (2027-2032) & (Tons)

Table 59. Global Bio-based MDI Consumption Value by Application (2021-2026) & (USD Million)

Table 60. Global Bio-based MDI Consumption Value by Application (2027-2032) & (USD Million)

Table 61. Global Bio-based MDI Average Price by Application (2021-2026) & (US\$/Ton)

Table 62. Global Bio-based MDI Average Price by Application (2027-2032) & (US\$/Ton)

Table 63. North America Bio-based MDI Sales Quantity by Type (2021-2026) & (Tons)

Table 64. North America Bio-based MDI Sales Quantity by Type (2027-2032) & (Tons)

Table 65. North America Bio-based MDI Sales Quantity by Application (2021-2026) & (Tons)

Table 66. North America Bio-based MDI Sales Quantity by Application (2027-2032) & (Tons)

Table 67. North America Bio-based MDI Sales Quantity by Country (2021-2026) & (Tons)

Table 68. North America Bio-based MDI Sales Quantity by Country (2027-2032) & (Tons)

Table 69. North America Bio-based MDI Consumption Value by Country (2021-2026) & (USD Million)

Table 70. North America Bio-based MDI Consumption Value by Country (2027-2032) & (USD Million)

Table 71. Europe Bio-based MDI Sales Quantity by Type (2021-2026) & (Tons)

Table 72. Europe Bio-based MDI Sales Quantity by Type (2027-2032) & (Tons)

Table 73. Europe Bio-based MDI Sales Quantity by Application (2021-2026) & (Tons)

Table 74. Europe Bio-based MDI Sales Quantity by Application (2027-2032) & (Tons)

Table 75. Europe Bio-based MDI Sales Quantity by Country (2021-2026) & (Tons)

Table 76. Europe Bio-based MDI Sales Quantity by Country (2027-2032) & (Tons)

Table 77. Europe Bio-based MDI Consumption Value by Country (2021-2026) & (USD Million)

Table 78. Europe Bio-based MDI Consumption Value by Country (2027-2032) & (USD Million)

Table 79. Asia-Pacific Bio-based MDI Sales Quantity by Type (2021-2026) & (Tons)

Table 80. Asia-Pacific Bio-based MDI Sales Quantity by Type (2027-2032) & (Tons)

Table 81. Asia-Pacific Bio-based MDI Sales Quantity by Application (2021-2026) & (Tons)

Table 82. Asia-Pacific Bio-based MDI Sales Quantity by Application (2027-2032) &

(Tons)

Table 83. Asia-Pacific Bio-based MDI Sales Quantity by Region (2021-2026) & (Tons)

Table 84. Asia-Pacific Bio-based MDI Sales Quantity by Region (2027-2032) & (Tons)

Table 85. Asia-Pacific Bio-based MDI Consumption Value by Region (2021-2026) & (USD Million)

Table 86. Asia-Pacific Bio-based MDI Consumption Value by Region (2027-2032) & (USD Million)

Table 87. South America Bio-based MDI Sales Quantity by Type (2021-2026) & (Tons)

Table 88. South America Bio-based MDI Sales Quantity by Type (2027-2032) & (Tons)

Table 89. South America Bio-based MDI Sales Quantity by Application (2021-2026) & (Tons)

Table 90. South America Bio-based MDI Sales Quantity by Application (2027-2032) & (Tons)

Table 91. South America Bio-based MDI Sales Quantity by Country (2021-2026) & (Tons)

Table 92. South America Bio-based MDI Sales Quantity by Country (2027-2032) & (Tons)

Table 93. South America Bio-based MDI Consumption Value by Country (2021-2026) & (USD Million)

Table 94. South America Bio-based MDI Consumption Value by Country (2027-2032) & (USD Million)

Table 95. Middle East & Africa Bio-based MDI Sales Quantity by Type (2021-2026) & (Tons)

Table 96. Middle East & Africa Bio-based MDI Sales Quantity by Type (2027-2032) & (Tons)

Table 97. Middle East & Africa Bio-based MDI Sales Quantity by Application (2021-2026) & (Tons)

Table 98. Middle East & Africa Bio-based MDI Sales Quantity by Application (2027-2032) & (Tons)

Table 99. Middle East & Africa Bio-based MDI Sales Quantity by Country (2021-2026) & (Tons)

Table 100. Middle East & Africa Bio-based MDI Sales Quantity by Country (2027-2032) & (Tons)

Table 101. Middle East & Africa Bio-based MDI Consumption Value by Country (2021-2026) & (USD Million)

Table 102. Middle East & Africa Bio-based MDI Consumption Value by Country (2027-2032) & (USD Million)

Table 103. Bio-based MDI Raw Material

Table 104. Key Manufacturers of Bio-based MDI Raw Materials

Table 105. Bio-based MDI Typical Distributors

Table 106. Bio-based MDI Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Bio-based MDI Picture
- Figure 2. Global Bio-based MDI Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Bio-based MDI Revenue Market Share by Type in 2025
- Figure 4. Polymeric MDI Examples
- Figure 5. Monomeric MDI Examples
- Figure 6. Modified MDI Examples
- Figure 7. Others Examples
- Figure 8. Global Bio-based MDI Revenue by Feedstock Origin, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Bio-based MDI Revenue Market Share by Feedstock Origin in 2025
- Figure 10. Lignin-based MDI Examples
- Figure 11. Sugar/Carbohydrate-derived MDI Examples
- Figure 12. Others Examples
- Figure 13. Global Bio-based MDI Revenue by Renewable Attribute Route, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Bio-based MDI Revenue Market Share by Renewable Attribute Route in 2025
- Figure 15. Mass Balance Examples
- Figure 16. Bio-Circular Mass Balance Examples
- Figure 17. Physically Segregated Examples
- Figure 18. Others Examples
- Figure 19. Global Bio-based MDI Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 20. Global Bio-based MDI Revenue Market Share by Application in 2025
- Figure 21. Construction Engineering Examples
- Figure 22. Automobile Manufacturing Examples
- Figure 23. Shoe Manufacturing Examples
- Figure 24. Household Goods Examples
- Figure 25. Others Examples
- Figure 26. Global Bio-based MDI Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 27. Global Bio-based MDI Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 28. Global Bio-based MDI Sales Quantity (2021-2032) & (Tons)
- Figure 29. Global Bio-based MDI Price (2021-2032) & (US\$/Ton)

Figure 30. Global Bio-based MDI Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global Bio-based MDI Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of Bio-based MDI by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 Bio-based MDI Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 Bio-based MDI Manufacturer (Revenue) Market Share in 2025

Figure 35. Global Bio-based MDI Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global Bio-based MDI Consumption Value Market Share by Region (2021-2032)

Figure 37. North America Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 40. South America Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 42. Global Bio-based MDI Sales Quantity Market Share by Type (2021-2032)

Figure 43. Global Bio-based MDI Consumption Value Market Share by Type (2021-2032)

Figure 44. Global Bio-based MDI Average Price by Type (2021-2032) & (US\$/Ton)

Figure 45. Global Bio-based MDI Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global Bio-based MDI Revenue Market Share by Application (2021-2032)

Figure 47. Global Bio-based MDI Average Price by Application (2021-2032) & (US\$/Ton)

Figure 48. North America Bio-based MDI Sales Quantity Market Share by Type (2021-2032)

Figure 49. North America Bio-based MDI Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America Bio-based MDI Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America Bio-based MDI Consumption Value Market Share by Country (2021-2032)

Figure 52. United States Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe Bio-based MDI Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe Bio-based MDI Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe Bio-based MDI Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe Bio-based MDI Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 60. France Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific Bio-based MDI Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific Bio-based MDI Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific Bio-based MDI Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific Bio-based MDI Consumption Value Market Share by Region (2021-2032)

Figure 68. China Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 71. India Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 74. South America Bio-based MDI Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America Bio-based MDI Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America Bio-based MDI Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America Bio-based MDI Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina Bio-based MDI Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa Bio-based MDI Sales Quantity Market Share by Type (2021-2032)

- Figure 81. Middle East & Africa Bio-based MDI Sales Quantity Market Share by Application (2021-2032)
- Figure 82. Middle East & Africa Bio-based MDI Sales Quantity Market Share by Country (2021-2032)
- Figure 83. Middle East & Africa Bio-based MDI Consumption Value Market Share by Country (2021-2032)
- Figure 84. Turkey Bio-based MDI Consumption Value (2021-2032) & (USD Million)
- Figure 85. Egypt Bio-based MDI Consumption Value (2021-2032) & (USD Million)
- Figure 86. Saudi Arabia Bio-based MDI Consumption Value (2021-2032) & (USD Million)
- Figure 87. South Africa Bio-based MDI Consumption Value (2021-2032) & (USD Million)
- Figure 88. Bio-based MDI Market Drivers
- Figure 89. Bio-based MDI Market Restraints
- Figure 90. Bio-based MDI Market Trends
- Figure 91. Porters Five Forces Analysis
- Figure 92. Manufacturing Cost Structure Analysis of Bio-based MDI in 2025
- Figure 93. Manufacturing Process Analysis of Bio-based MDI
- Figure 94. Bio-based MDI Industrial Chain
- Figure 95. Sales Channel: Direct to End-User vs Distributors
- Figure 96. Direct Channel Pros & Cons
- Figure 97. Indirect Channel Pros & Cons
- Figure 98. Methodology
- Figure 99. Research Process and Data Source

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