

Global Biobased Pentamethylene Diisocyanate Pdi Market Research Report 2026(Status and Outlook)

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Abstracts

PDI, 1,5-pentanediiisocyanate, is a new type of aliphatic isocyanate derived from renewable biomass. It is a 'new member' of the isocyanate industry and is usually synthesized by photogasification of bio based 1,5-pentanediamine (PDA). Due to its high vapor pressure, it is usually sold as PDI biuret or trimer, which has excellent mechanical properties, outstanding chemical stability, and excellent light and weather resistance. It can be used in high-end coatings, elastomers With the unique advantages of low-carbon, environmentally friendly, and sustainable development in various industries such as adhesives, it meets the environmental requirements of upgrading, substitution, and green and healthy development, and its development prospects are highly regarded by domestic peers.

The global Biobased Pentamethylene Diisocyanate Pdi market size was estimated at USD 180.25 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.45% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Biobased Pentamethylene Diisocyanate Pdi market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Biobased Pentamethylene Diisocyanate Pdi market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Biobased Pentamethylene Diisocyanate Pdi market.

Global Biobased Pentamethylene Diisocyanate Pdi Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

BASF

Covestro

Mitsui Chemicals

Wanhua Chemical Group

Gansu Yinguang Juyin Chemical

Market Segmentation (by Type)

Purity 99%

Purity Above 99%

Market Segmentation (by Application)

Coating
Elastomer
Adhesive
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Biobased Pentamethylene Diisocyanate Pdi Market

Overview of the regional outlook of the Biobased Pentamethylene Diisocyanate Pdi

Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Biobased Pentamethylene Diisocyanate Pdi Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Biobased Pentamethylene Diisocyanate Pdi, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Biobased Pentamethylene Diisocyanate Pdi
- 1.2 Key Market Segments
 - 1.2.1 Biobased Pentamethylene Diisocyanate Pdi Segment by Type
 - 1.2.2 Biobased Pentamethylene Diisocyanate Pdi Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Biobased Pentamethylene Diisocyanate Pdi Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Biobased Pentamethylene Diisocyanate Pdi Product Life Cycle
- 3.3 Global Biobased Pentamethylene Diisocyanate Pdi Sales by Manufacturers (2020-2025)
- 3.4 Global Biobased Pentamethylene Diisocyanate Pdi Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Biobased Pentamethylene Diisocyanate Pdi Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Biobased Pentamethylene Diisocyanate Pdi Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Biobased Pentamethylene Diisocyanate Pdi Market Competitive Situation and Trends

3.8.1 Biobased Pentamethylene Diisocyanate Pdi Market Concentration Rate

3.8.2 Global 5 and 10 Largest Biobased Pentamethylene Diisocyanate Pdi Players

Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI INDUSTRY CHAIN ANALYSIS

4.1 Biobased Pentamethylene Diisocyanate Pdi Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Biobased Pentamethylene Diisocyanate Pdi Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Biobased Pentamethylene Diisocyanate Pdi Market

5.7 ESG Ratings of Leading Companies

6 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Type (2020-2025)
- 6.3 Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Type (2020-2025)
- 6.4 Global Biobased Pentamethylene Diisocyanate Pdi Price by Type (2020-2025)

7 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Sales by Application (2020-2025)
- 7.3 Global Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD) by Application (2020-2025)
- 7.4 Global Biobased Pentamethylene Diisocyanate Pdi Sales Growth Rate by Application (2020-2025)

8 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET SALES BY REGION

- 8.1 Global Biobased Pentamethylene Diisocyanate Pdi Sales by Region
 - 8.1.1 Global Biobased Pentamethylene Diisocyanate Pdi Sales by Region
 - 8.1.2 Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Region
- 8.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Region
 - 8.2.1 Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Region
 - 8.2.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Region
- 8.3 North America
 - 8.3.1 North America Biobased Pentamethylene Diisocyanate Pdi Sales by Country
 - 8.3.2 North America Biobased Pentamethylene Diisocyanate Pdi Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Biobased Pentamethylene Diisocyanate Pdi Sales by Country

8.4.2 Europe Biobased Pentamethylene Diisocyanate Pdi Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Sales by Region

8.5.2 Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Biobased Pentamethylene Diisocyanate Pdi Sales by Country

8.6.2 South America Biobased Pentamethylene Diisocyanate Pdi Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Sales by Region

8.7.2 Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET PRODUCTION BY REGION

9.1 Global Production of Biobased Pentamethylene Diisocyanate Pdi by Region(2020-2025)

9.2 Global Biobased Pentamethylene Diisocyanate Pdi Revenue Market Share by Region (2020-2025)

9.3 Global Biobased Pentamethylene Diisocyanate Pdi Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Biobased Pentamethylene Diisocyanate Pdi Production

9.4.1 North America Biobased Pentamethylene Diisocyanate Pdi Production Growth Rate (2020-2025)

9.4.2 North America Biobased Pentamethylene Diisocyanate Pdi Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Biobased Pentamethylene Diisocyanate Pdi Production

9.5.1 Europe Biobased Pentamethylene Diisocyanate Pdi Production Growth Rate (2020-2025)

9.5.2 Europe Biobased Pentamethylene Diisocyanate Pdi Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Biobased Pentamethylene Diisocyanate Pdi Production (2020-2025)

9.6.1 Japan Biobased Pentamethylene Diisocyanate Pdi Production Growth Rate (2020-2025)

9.6.2 Japan Biobased Pentamethylene Diisocyanate Pdi Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Biobased Pentamethylene Diisocyanate Pdi Production (2020-2025)

9.7.1 China Biobased Pentamethylene Diisocyanate Pdi Production Growth Rate (2020-2025)

9.7.2 China Biobased Pentamethylene Diisocyanate Pdi Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 BASF

10.1.1 BASF Basic Information

10.1.2 BASF Biobased Pentamethylene Diisocyanate Pdi Product Overview

10.1.3 BASF Biobased Pentamethylene Diisocyanate Pdi Product Market Performance

10.1.4 BASF Business Overview

10.1.5 BASF SWOT Analysis

10.1.6 BASF Recent Developments

10.2 Covestro

10.2.1 Covestro Basic Information

10.2.2 Covestro Biobased Pentamethylene Diisocyanate Pdi Product Overview

10.2.3 Covestro Biobased Pentamethylene Diisocyanate Pdi Product Market Performance

- 10.2.4 Covestro Business Overview
- 10.2.5 Covestro SWOT Analysis
- 10.2.6 Covestro Recent Developments
- 10.3 Mitsui Chemicals
 - 10.3.1 Mitsui Chemicals Basic Information
 - 10.3.2 Mitsui Chemicals Biobased Pentamethylene Diisocyanate Pdi Product Overview
 - 10.3.3 Mitsui Chemicals Biobased Pentamethylene Diisocyanate Pdi Product Market Performance
 - 10.3.4 Mitsui Chemicals Business Overview
 - 10.3.5 Mitsui Chemicals SWOT Analysis
 - 10.3.6 Mitsui Chemicals Recent Developments
- 10.4 Wanhua Chemical Group
 - 10.4.1 Wanhua Chemical Group Basic Information
 - 10.4.2 Wanhua Chemical Group Biobased Pentamethylene Diisocyanate Pdi Product Overview
 - 10.4.3 Wanhua Chemical Group Biobased Pentamethylene Diisocyanate Pdi Product Market Performance
 - 10.4.4 Wanhua Chemical Group Business Overview
 - 10.4.5 Wanhua Chemical Group Recent Developments
- 10.5 Gansu Yinguang Juyin Chemcial
 - 10.5.1 Gansu Yinguang Juyin Chemcial Basic Information
 - 10.5.2 Gansu Yinguang Juyin Chemcial Biobased Pentamethylene Diisocyanate Pdi Product Overview
 - 10.5.3 Gansu Yinguang Juyin Chemcial Biobased Pentamethylene Diisocyanate Pdi Product Market Performance
 - 10.5.4 Gansu Yinguang Juyin Chemcial Business Overview
 - 10.5.5 Gansu Yinguang Juyin Chemcial Recent Developments

11 BIOBASED PENTAMETHYLENE DIISOCYANATE PDI MARKET FORECAST BY REGION

- 11.1 Global Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast
- 11.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Country
 - 11.2.3 Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Region

11.2.4 South America Biobased Pentamethylene Diisocyanate Pdi Market Size
Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Biobased Pentamethylene
Diisocyanate Pdi by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Biobased Pentamethylene Diisocyanate Pdi Market Forecast by Type
(2026-2035)

12.1.1 Global Forecasted Sales of Biobased Pentamethylene Diisocyanate Pdi by
Type (2026-2035)

12.1.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by
Type (2026-2035)

12.1.3 Global Forecasted Price of Biobased Pentamethylene Diisocyanate Pdi by Type
(2026-2035)

12.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Forecast by Application
(2026-2035)

12.2.1 Global Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) Forecast by
Application

12.2.2 Global Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD)
Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Type (M USD)

Table 4. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Application

Table 5. Biobased Pentamethylene Diisocyanate Pdi Market Size Comparison by Region (M USD)

Table 6. Global Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Biobased Pentamethylene Diisocyanate Pdi Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Biobased Pentamethylene Diisocyanate Pdi Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Biobased Pentamethylene Diisocyanate Pdi as of 2025)

Table 11. Global Market Biobased Pentamethylene Diisocyanate Pdi Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Biobased Pentamethylene Diisocyanate Pdi Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Biobased Pentamethylene Diisocyanate Pdi Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Biobased Pentamethylene Diisocyanate Pdi Sales by Type (K MT)

Table 27. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Type (M USD)

Table 28. Global Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) by Type (2020-2025)

Table 29. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Type (2020-2025)

Table 30. Global Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD) by Type (2020-2025)

Table 31. Global Biobased Pentamethylene Diisocyanate Pdi Market Share by Type (2020-2025)

Table 32. Global Biobased Pentamethylene Diisocyanate Pdi Price (USD/KG) by Type (2020-2025)

Table 33. Global Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) by Application

Table 34. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Application

Table 35. Global Biobased Pentamethylene Diisocyanate Pdi Sales by Application (2020-2025) & (K MT)

Table 36. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Application (2020-2025)

Table 37. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Application (2020-2025) & (M USD)

Table 38. Global Biobased Pentamethylene Diisocyanate Pdi Market Share by Application (2020-2025)

Table 39. Global Biobased Pentamethylene Diisocyanate Pdi Sales Growth Rate by Application (2020-2025)

Table 40. Global Biobased Pentamethylene Diisocyanate Pdi Sales by Region (2020-2025) & (K MT)

Table 41. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Region (2020-2025)

Table 42. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Region (2020-2025) & (M USD)

Table 43. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Region (2020-2025)

Table 44. North America Biobased Pentamethylene Diisocyanate Pdi Sales by Country (2020-2025) & (K MT)

Table 45. North America Biobased Pentamethylene Diisocyanate Pdi Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Biobased Pentamethylene Diisocyanate Pdi Sales by Country (2020-2025) & (K MT)

Table 47. Europe Biobased Pentamethylene Diisocyanate Pdi Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Market Size by Region (2020-2025) & (M USD)

Table 50. South America Biobased Pentamethylene Diisocyanate Pdi Sales by Country (2020-2025) & (K MT)

Table 51. South America Biobased Pentamethylene Diisocyanate Pdi Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Sales by Region (2020-2025) & (K MT)

Table 53. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Market Size by Region (2020-2025) & (M USD)

Table 54. Global Biobased Pentamethylene Diisocyanate Pdi Production (K MT) by Region(2020-2025)

Table 55. Global Biobased Pentamethylene Diisocyanate Pdi Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Biobased Pentamethylene Diisocyanate Pdi Revenue Market Share by Region (2020-2025)

Table 57. Global Biobased Pentamethylene Diisocyanate Pdi Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Biobased Pentamethylene Diisocyanate Pdi Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Biobased Pentamethylene Diisocyanate Pdi Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Biobased Pentamethylene Diisocyanate Pdi Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Biobased Pentamethylene Diisocyanate Pdi Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. BASF Basic Information

Table 63. BASF Biobased Pentamethylene Diisocyanate Pdi Product Overview

Table 64. BASF Biobased Pentamethylene Diisocyanate Pdi Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. BASF Business Overview

Table 66. BASF SWOT Analysis

Table 67. BASF Recent Developments

Table 68. Covestro Basic Information

Table 69. Covestro Biobased Pentamethylene Diisocyanate Pdi Product Overview

Table 70. Covestro Biobased Pentamethylene Diisocyanate Pdi Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Covestro Business Overview

Table 72. Covestro SWOT Analysis

Table 73. Covestro Recent Developments

Table 74. Mitsui Chemicals Basic Information

Table 75. Mitsui Chemicals Biobased Pentamethylene Diisocyanate Pdi Product Overview

Table 76. Mitsui Chemicals Biobased Pentamethylene Diisocyanate Pdi Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Mitsui Chemicals Business Overview

Table 78. Mitsui Chemicals SWOT Analysis

Table 79. Mitsui Chemicals Recent Developments

Table 80. Wanhua Chemical Group Basic Information

Table 81. Wanhua Chemical Group Biobased Pentamethylene Diisocyanate Pdi Product Overview

Table 82. Wanhua Chemical Group Biobased Pentamethylene Diisocyanate Pdi Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Wanhua Chemical Group Business Overview

Table 84. Wanhua Chemical Group Recent Developments

Table 85. Gansu Yinguang Juyin Chemical Basic Information

Table 86. Gansu Yinguang Juyin Chemical Biobased Pentamethylene Diisocyanate Pdi Product Overview

Table 87. Gansu Yinguang Juyin Chemical Biobased Pentamethylene Diisocyanate Pdi Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Gansu Yinguang Juyin Chemical Business Overview

Table 89. Gansu Yinguang Juyin Chemical Recent Developments

Table 90. Global Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Region (2026-2035) & (K MT)

Table 91. Global Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Region (2026-2035) & (M USD)

Table 92. North America Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Country (2026-2035) & (K MT)

Table 93. North America Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Country (2026-2035) & (M USD)

Table 94. Europe Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Country (2026-2035) & (K MT)

Table 95. Europe Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Country (2026-2035) & (M USD)

Table 96. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Region (2026-2035) & (K MT)

Table 97. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Region (2026-2035) & (M USD)

Table 98. South America Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Country (2026-2035) & (K MT)

Table 99. South America Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Country (2026-2035) & (M USD)

Table 100. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Country (2026-2035) & (Units)

Table 101. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Country (2026-2035) & (M USD)

Table 102. Global Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Type (2026-2035) & (K MT)

Table 103. Global Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Type (2026-2035) & (M USD)

Table 104. Global Biobased Pentamethylene Diisocyanate Pdi Price Forecast by Type (2026-2035) & (USD/KG)

Table 105. Global Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) Forecast by Application (2026-2035)

Table 106. Global Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Biobased Pentamethylene Diisocyanate Pdi
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD), 2025-2035
- Figure 5. Global Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD) (2020-2035)
- Figure 6. Global Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Biobased Pentamethylene Diisocyanate Pdi Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Biobased Pentamethylene Diisocyanate Pdi Product Life Cycle
- Figure 13. Biobased Pentamethylene Diisocyanate Pdi Sales Share by Manufacturers in 2025
- Figure 14. Global Biobased Pentamethylene Diisocyanate Pdi Revenue Share by Manufacturers in 2025
- Figure 15. Biobased Pentamethylene Diisocyanate Pdi Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Biobased Pentamethylene Diisocyanate Pdi Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Biobased Pentamethylene Diisocyanate Pdi Revenue in 2025
- Figure 18. Industry Chain Map of Biobased Pentamethylene Diisocyanate Pdi
- Figure 19. Global Biobased Pentamethylene Diisocyanate Pdi Market PEST Analysis
- Figure 20. Global Biobased Pentamethylene Diisocyanate Pdi Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Biobased Pentamethylene Diisocyanate Pdi Market Share by Type

Figure 27. Sales Market Share of Biobased Pentamethylene Diisocyanate Pdi by Type (2020-2025)

Figure 28. Sales Market Share of Biobased Pentamethylene Diisocyanate Pdi by Type in 2025

Figure 29. Market Share of Biobased Pentamethylene Diisocyanate Pdi by Type (2020-2025)

Figure 30. Market Share of Biobased Pentamethylene Diisocyanate Pdi by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Biobased Pentamethylene Diisocyanate Pdi Market Share by Application

Figure 33. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Application (2020-2025)

Figure 34. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Application in 2025

Figure 35. Global Biobased Pentamethylene Diisocyanate Pdi Market Share by Application (2020-2025)

Figure 36. Global Biobased Pentamethylene Diisocyanate Pdi Market Share by Application in 2025

Figure 37. Global Biobased Pentamethylene Diisocyanate Pdi Sales Growth Rate by Application (2020-2025)

Figure 38. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Region (2020-2025)

Figure 39. Global Biobased Pentamethylene Diisocyanate Pdi Market Size by Region (2020-2025)

Figure 40. North America Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Country in 2024

Figure 43. North America Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Biobased Pentamethylene Diisocyanate Pdi Market Size by Country in 2024

Figure 45. U.S. Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Biobased Pentamethylene Diisocyanate Pdi Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Biobased Pentamethylene Diisocyanate Pdi Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Biobased Pentamethylene Diisocyanate Pdi Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Biobased Pentamethylene Diisocyanate Pdi Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Country in 2024

Figure 53. Europe Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Biobased Pentamethylene Diisocyanate Pdi Market Size by Country in 2024

Figure 55. Germany Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Sales Market Share

by Region in 2024

Figure 67. Asia Pacific Biobased Pentamethylene Diisocyanate Pdi Market Size by Region in 2024

Figure 68. China Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (K MT)

Figure 79. South America Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Country in 2024

Figure 80. South America Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (M USD)

Figure 81. South America Biobased Pentamethylene Diisocyanate Pdi Market Size by Country in 2024

Figure 82. Brazil Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Biobased Pentamethylene Diisocyanate Pdi Market Size by Region in 2024

Figure 92. Saudi Arabia Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Biobased Pentamethylene Diisocyanate Pdi Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Biobased Pentamethylene Diisocyanate Pdi Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Biobased Pentamethylene Diisocyanate Pdi Production Market Share by Region (2020-2025)

Figure 103. North America Biobased Pentamethylene Diisocyanate Pdi Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Biobased Pentamethylene Diisocyanate Pdi Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Biobased Pentamethylene Diisocyanate Pdi Production (K MT)

Growth Rate (2020-2025)

Figure 106. China Biobased Pentamethylene Diisocyanate Pdi Production (K MT)

Growth Rate (2020-2025)

Figure 107. Global Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Biobased Pentamethylene Diisocyanate Pdi Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Biobased Pentamethylene Diisocyanate Pdi Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Biobased Pentamethylene Diisocyanate Pdi Market Share Forecast by Type (2026-2035)

Figure 111. Global Biobased Pentamethylene Diisocyanate Pdi Sales Forecast by Application (2026-2035)

Figure 112. Global Biobased Pentamethylene Diisocyanate Pdi Market Share Forecast by Application (2026-2035)

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