

Hexamethylenediamine Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Nylon-6,6 Production, Hexamethylene Diisocyanate, Water Treatment Chemicals, Others), By Region and Competition, 2020-2030F

Market Report | 2025-04-25 | 185 pages | TechSci Research

AVAILABLE LICENSES:

- Single User License \$4500.00
- Multi-User License \$5500.00
- Custom Research License \$8000.00

Report description:

Market Overview

The Global Hexamethylenediamine Market was valued at USD 8,506.86 million in 2024 and is projected to reach USD 12,824.89 million by 2030, growing at a CAGR of 7.47% during the forecast period. Hexamethylenediamine (HMDA) is a versatile organic compound primarily used in the production of nylon 6,6, a material essential in manufacturing fibers, resins, and engineering plastics. Its role extends to specialized chemicals, such as curing agents for epoxy resins and additives for coatings, further driving its market demand. The primary market growth driver is the increasing demand for nylon 6,6 across automotive, textile, and consumer goods industries due to its mechanical strength, heat resistance, and durability. As global industries demand more advanced, cost-efficient, and sustainable materials, HMDA remains a critical building block. However, concerns over the environmental impact of traditional production methods are prompting the adoption of cleaner, more sustainable manufacturing processes to meet stricter environmental regulations.

Key Market Drivers

Growth in Textile Industry

The textile industry's expansion is a major driver for the hexamethylenediamine market. From 1975 to 2020, global textile fiber production more than tripled, with projections indicating a further increase to 160 million metric tons by 2030. Nylon, produced using HMDA, is a staple synthetic fiber in textiles due to its durability, elasticity, resistance to abrasion, and moisture-wicking properties. As global demand for synthetic fibers rises, particularly in fashion, sportswear, and industrial fabrics, so too does the demand for HMDA. The textile sector in emerging economies, especially China and India, has accelerated this demand, as these countries dominate global textile production. China alone accounts for over 50% of the world's textile production, and its textile

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com

exports reached approximately USD 316 billion in 2022. As global textile markets continue to grow, particularly in Asia-Pacific regions, the need for HMDA to produce nylon 6,6 for various applications remains a driving force in the market.

Key Market Challenges

Volatility in Raw Material Prices

A significant challenge faced by the global HMDA market is the volatility in raw material prices. HMDA is primarily derived from adipic acid and cyclohexane, which are sourced from petrochemical processes. These raw materials are highly susceptible to price fluctuations due to geopolitical events, supply-demand imbalances, crude oil price shifts, and regulatory changes. Changes in crude oil prices, for example, directly impact the cost of adipic acid and cyclohexane, thus affecting HMDA production costs. Increased feedstock prices can squeeze profit margins, particularly for companies operating on fixed pricing agreements or long-term contracts. Sudden spikes in raw material prices can lead to supply chain disruptions, forcing manufacturers to seek alternative sources or adjust production schedules. This volatility impacts the stability of the market, requiring manufacturers to adapt quickly to maintain profitability.

Key Market Trends

Shift Toward Bio-Based Feedstocks

A transformative trend in the global HMDA market is the growing adoption of bio-based feedstocks for its production. In 2022, Asahi Kasei partnered with Genomatica to develop hexamethylenediamine (HMD) derived from biomass-based raw materials, a process known as bio-HMD. Asahi Kasei, traditionally using fossil fuels to produce HMD, aims to shift towards more sustainable, renewable resources. This shift aligns with the global push toward reducing carbon footprints and adopting green chemistry principles. The demand for sustainable materials, especially in the production of polyamide 66 (used in automotive and electronics components), has been driving this change. Bio-based HMDA provides a more environmentally friendly alternative, enabling companies to meet stricter environmental standards and support the global transition toward more sustainable manufacturing practices.

Key Market Players

- Ascend Performance Materials
- BASF SE
- Solvay SA
- Domo Chemicals
- Wanhua Chemical (Ningbo) Co., Ltd
- Shandong NHU Fine Chemical Technology Co., Ltd.
- Huafeng Group Co., Ltd.
- Tianchen Qixiang New Material Limited Company
- Fujian Rongchen New Materials Co., Ltd.
- Ningxia Ruitai Technology Co., Ltd.

Report Scope:

In this report, the Global HexamethyleneDiamine Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- HexamethyleneDiamine Market, By Sales Channel:

- o Direct
- o Indirect

- HexamethyleneDiamine Market, By End Use:

- o Nylon-6,6 Production
- o Hexamethylene Diisocyanate
- o Water Treatment Chemicals
- o Others

- HexamethyleneDiamine Market, By Region:

- o North America
- United States

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Canada
- Mexico
- o Europe
- France
- United Kingdom
- Italy
- Germany
- Spain
- o Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global HexamethyleneDiamine Market.

Available Customizations:

Global HexamethyleneDiamine Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends
4. Impact of COVID-19 on Global HexamethyleneDiamine Market
5. Global HexamethyleneDiamine Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Sales Channel (Direct, Indirect)
 - 5.2.2. By End Use (Nylon-6,6 Production, Hexamethylene Diisocyanate, Water Treatment Chemicals, Others)
 - 5.2.3. By Region
 - 5.2.4. By Company (2024)
 - 5.3. Market Map
6. North America HexamethyleneDiamine Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Sales Channel
 - 6.2.2. By End Use
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States HexamethyleneDiamine Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Sales Channel
 - 6.3.1.2.2. By End Use
 - 6.3.2. Mexico HexamethyleneDiamine Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Sales Channel
 - 6.3.2.2.2. By End Use
 - 6.3.3. Canada HexamethyleneDiamine Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Sales Channel
 - 6.3.3.2.2. By End Use
7. Europe HexamethyleneDiamine Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Sales Channel
 - 7.2.2. By End Use

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.2.3. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. France HexamethyleneDiamine Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Sales Channel
 - 7.3.1.2.2. By End Use
 - 7.3.2. Germany HexamethyleneDiamine Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Sales Channel
 - 7.3.2.2.2. By End Use
 - 7.3.3. United Kingdom HexamethyleneDiamine Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Sales Channel
 - 7.3.3.2.2. By End Use
 - 7.3.4. Italy HexamethyleneDiamine Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Sales Channel
 - 7.3.4.2.2. By End Use
 - 7.3.5. Spain HexamethyleneDiamine Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Sales Channel
 - 7.3.5.2.2. By End Use
- 8. Asia Pacific HexamethyleneDiamine Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Sales Channel
 - 8.2.2. By End Use
 - 8.2.3. By Country
 - 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China HexamethyleneDiamine Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Sales Channel
 - 8.3.1.2.2. By End Use
 - 8.3.2. India HexamethyleneDiamine Market Outlook

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
- 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Sales Channel
 - 8.3.2.2.2. By End Use
- 8.3.3. South Korea HexamethyleneDiamine Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Sales Channel
 - 8.3.3.2.2. By End Use
- 8.3.4. Japan HexamethyleneDiamine Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Sales Channel
 - 8.3.4.2.2. By End Use
- 8.3.5. Australia HexamethyleneDiamine Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Sales Channel
 - 8.3.5.2.2. By End Use
- 9. South America HexamethyleneDiamine Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Sales Channel
 - 9.2.2. By End Use
 - 9.2.3. By Country
 - 9.3. South America: Country Analysis
 - 9.3.1. Brazil HexamethyleneDiamine Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Sales Channel
 - 9.3.1.2.2. By End Use
 - 9.3.2. Argentina HexamethyleneDiamine Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Sales Channel
 - 9.3.2.2.2. By End Use
 - 9.3.3. Colombia HexamethyleneDiamine Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.3.3.2.1. By Sales Channel
- 9.3.3.2.2. By End Use
- 10. Middle East and Africa HexamethyleneDiamine Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Sales Channel
 - 10.2.2. By End Use
 - 10.2.3. By Country
 - 10.3. MEA: Country Analysis
 - 10.3.1. South Africa HexamethyleneDiamine Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Sales Channel
 - 10.3.1.2.2. By End Use
 - 10.3.2. Saudi Arabia HexamethyleneDiamine Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Sales Channel
 - 10.3.2.2.2. By End Use
 - 10.3.3. UAE HexamethyleneDiamine Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Sales Channel
 - 10.3.3.2.2. By End Use
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Global HexamethyleneDiamine Market: SWOT Analysis
- 14. Porters Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
- 15. Competitive Landscape
 - 15.1. Ascend Performance Materials
 - 15.1.1. Business Overview
 - 15.1.2. Company Snapshot
 - 15.1.3. Products & Services

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 15.1.4. Financials (As Reported)
- 15.1.5. Recent Developments
- 15.1.6. Key Personnel Details
- 15.1.7. SWOT Analysis
- 15.2. BASF SE
- 15.3. Solvay SA
- 15.4. Domo Chemicals
- 15.5. Wanhua Chemical (Ningbo) Co., Ltd
- 15.6. Shandong NHU Fine Chemical Technology Co., Ltd.
- 15.7. Huafeng Group Co., LTD.
- 15.8. Tianchen Qixiang New Material Limited Company
- 15.9. Fujian Rongchen New Materials Co., Ltd.
- 15.10. Ningxia Ruitai Technology Co., Ltd.
- 16. Strategic Recommendations
- 17. About Us & Disclaimer

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

HexamethyleneDiamine Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Nylon-6,6 Production, Hexamethylene Diisocyanate, Water Treatment Chemicals, Others), By Region and Competition, 2020-2030F

Market Report | 2025-04-25 | 185 pages | TechSci Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4500.00
	Multi-User License	\$5500.00
	Custom Research License	\$8000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Date

2026-03-04

Signature

A large, empty rectangular box intended for a signature.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com