

# Global MDH Flame Retardant Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on MDH Flame Retardant competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. MDH flame retardant is short for magnesium hydroxide ( $Mg(OH)_2$ ), a halogen-free, environmentally friendly inorganic flame retardant. It absorbs heat and achieves its flame-retardant effect by releasing moisture during thermal decomposition. Simultaneously, the magnesium oxide byproduct formed can form a char layer on the material surface, isolating oxygen and heat, reducing smoke and toxic gas production. Upstream, the main focus is on raw material supply, with core raw materials including magnesite (used to produce magnesium hydroxide), as well as the energy and auxiliary materials required in the production process. Downstream, it is widely used for flame retardancy in plastics such as polypropylene (PP) and polyethylene (PE). Global sales volume in 2024 was approximately 280,000 tons, with an average market price of approximately US\$2,230 per ton. The industry's gross profit margin ranged from 15% to 30%. With increasingly stringent environmental performance requirements for flame-retardant materials worldwide, magnesium hydroxide (MDH) flame retardant, with its non-toxic, smoke-suppressing, and non-corrosive gas-producing properties, has become an ideal alternative to halogenated flame retardants. Strong demand from downstream industries has provided a vast market space for the sector. Magnesium hydroxide flame retardant is widely used in polymer materials such as polyvinyl chloride (PVC), polyethylene (PE), engineering thermoplastics, and rubber products. Demand growth is particularly significant in industries with extremely high requirements for flame retardancy and smoke suppression, such as wire and cable and electronics manufacturing. With numerous participants in the global market and increasingly fierce competition, companies need to continuously improve product performance and quality

to maintain their competitiveness.

The global MDH Flame Retardant market size was estimated at USD 620.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global MDH Flame Retardant 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 MDH Flame Retardant 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 MDH Flame Retardant market.

### **Global MDH Flame Retardant 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**

ICL  
Huber Engineered Materials  
Martin Marietta  
Kyowa Chemical  
Ube Material Industries  
Konoshima  
Tateho Chemical  
Nuova Sima  
Puyang Refractories  
XuSen  
Hellon  
ATK Flame Retardant Materials  
Henan Qianghong Magnesium Industry  
Dalian Yatai Technology New Materials  
Guangdong Yuxing Fire-retardant New Materials

### **Market Segmentation (by Type)**

Chemical Synthesis  
Physical Crushing

### **Market Segmentation (by Application)**

Plastic Industry  
Rubber Industry  
Other

### **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 MDH Flame Retardant Market

Overview of the regional outlook of the MDH Flame Retardant Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **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 MDH Flame Retardant 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 MDH Flame Retardant, 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 MDH Flame Retardant
- 1.2 Key Market Segments
  - 1.2.1 MDH Flame Retardant Segment by Type
  - 1.2.2 MDH Flame Retardant 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 MDH FLAME RETARDANT MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global MDH Flame Retardant Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global MDH Flame Retardant Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 MDH FLAME RETARDANT MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global MDH Flame Retardant Product Life Cycle
- 3.3 Global MDH Flame Retardant Sales by Manufacturers (2020-2025)
- 3.4 Global MDH Flame Retardant Revenue Market Share by Manufacturers (2020-2025)
- 3.5 MDH Flame Retardant Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global MDH Flame Retardant Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 MDH Flame Retardant Market Competitive Situation and Trends
  - 3.8.1 MDH Flame Retardant Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest MDH Flame Retardant Players Market Share by Revenue
  - 3.8.3 Mergers & Acquisitions, Expansion

## **4 MDH FLAME RETARDANT INDUSTRY CHAIN ANALYSIS**

- 4.1 MDH Flame Retardant 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 MDH FLAME RETARDANT 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 MDH Flame Retardant 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 MDH Flame Retardant Market
- 5.7 ESG Ratings of Leading Companies

## **6 MDH FLAME RETARDANT MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global MDH Flame Retardant Sales Market Share by Type (2020-2025)
- 6.3 Global MDH Flame Retardant Market Size by Type (2020-2025)
- 6.4 Global MDH Flame Retardant Price by Type (2020-2025)

## **7 MDH FLAME RETARDANT MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)

- 7.2 Global MDH Flame Retardant Market Sales by Application (2020-2025)
- 7.3 Global MDH Flame Retardant Market Size (M USD) by Application (2020-2025)
- 7.4 Global MDH Flame Retardant Sales Growth Rate by Application (2020-2025)

## **8 MDH FLAME RETARDANT MARKET SALES BY REGION**

- 8.1 Global MDH Flame Retardant Sales by Region
  - 8.1.1 Global MDH Flame Retardant Sales by Region
  - 8.1.2 Global MDH Flame Retardant Sales Market Share by Region
- 8.2 Global MDH Flame Retardant Market Size by Region
  - 8.2.1 Global MDH Flame Retardant Market Size by Region
  - 8.2.2 Global MDH Flame Retardant Market Size by Region
- 8.3 North America
  - 8.3.1 North America MDH Flame Retardant Sales by Country
  - 8.3.2 North America MDH Flame Retardant 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 MDH Flame Retardant Sales by Country
  - 8.4.2 Europe MDH Flame Retardant 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 MDH Flame Retardant Sales by Region
  - 8.5.2 Asia Pacific MDH Flame Retardant 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 MDH Flame Retardant Sales by Country
  - 8.6.2 South America MDH Flame Retardant 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 MDH Flame Retardant Sales by Region

8.7.2 Middle East and Africa MDH Flame Retardant 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 MDH FLAME RETARDANT MARKET PRODUCTION BY REGION**

9.1 Global Production of MDH Flame Retardant by Region(2020-2025)

9.2 Global MDH Flame Retardant Revenue Market Share by Region (2020-2025)

9.3 Global MDH Flame Retardant Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America MDH Flame Retardant Production

9.4.1 North America MDH Flame Retardant Production Growth Rate (2020-2025)

9.4.2 North America MDH Flame Retardant Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe MDH Flame Retardant Production

9.5.1 Europe MDH Flame Retardant Production Growth Rate (2020-2025)

9.5.2 Europe MDH Flame Retardant Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan MDH Flame Retardant Production (2020-2025)

9.6.1 Japan MDH Flame Retardant Production Growth Rate (2020-2025)

9.6.2 Japan MDH Flame Retardant Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China MDH Flame Retardant Production (2020-2025)

9.7.1 China MDH Flame Retardant Production Growth Rate (2020-2025)

9.7.2 China MDH Flame Retardant Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 ICL

10.1.1 ICL Basic Information

10.1.2 ICL MDH Flame Retardant Product Overview

10.1.3 ICL MDH Flame Retardant Product Market Performance

- 10.1.4 ICL Business Overview
- 10.1.5 ICL SWOT Analysis
- 10.1.6 ICL Recent Developments
- 10.2 Huber Engineered Materials
  - 10.2.1 Huber Engineered Materials Basic Information
  - 10.2.2 Huber Engineered Materials MDH Flame Retardant Product Overview
  - 10.2.3 Huber Engineered Materials MDH Flame Retardant Product Market Performance
  - 10.2.4 Huber Engineered Materials Business Overview
  - 10.2.5 Huber Engineered Materials SWOT Analysis
  - 10.2.6 Huber Engineered Materials Recent Developments
- 10.3 Martin Marietta
  - 10.3.1 Martin Marietta Basic Information
  - 10.3.2 Martin Marietta MDH Flame Retardant Product Overview
  - 10.3.3 Martin Marietta MDH Flame Retardant Product Market Performance
  - 10.3.4 Martin Marietta Business Overview
  - 10.3.5 Martin Marietta SWOT Analysis
  - 10.3.6 Martin Marietta Recent Developments
- 10.4 Kyowa Chemical
  - 10.4.1 Kyowa Chemical Basic Information
  - 10.4.2 Kyowa Chemical MDH Flame Retardant Product Overview
  - 10.4.3 Kyowa Chemical MDH Flame Retardant Product Market Performance
  - 10.4.4 Kyowa Chemical Business Overview
  - 10.4.5 Kyowa Chemical Recent Developments
- 10.5 Ube Material Industries
  - 10.5.1 Ube Material Industries Basic Information
  - 10.5.2 Ube Material Industries MDH Flame Retardant Product Overview
  - 10.5.3 Ube Material Industries MDH Flame Retardant Product Market Performance
  - 10.5.4 Ube Material Industries Business Overview
  - 10.5.5 Ube Material Industries Recent Developments
- 10.6 Konoshima
  - 10.6.1 Konoshima Basic Information
  - 10.6.2 Konoshima MDH Flame Retardant Product Overview
  - 10.6.3 Konoshima MDH Flame Retardant Product Market Performance
  - 10.6.4 Konoshima Business Overview
  - 10.6.5 Konoshima Recent Developments
- 10.7 Tateho Chemical
  - 10.7.1 Tateho Chemical Basic Information
  - 10.7.2 Tateho Chemical MDH Flame Retardant Product Overview

- 10.7.3 Tateho Chemical MDH Flame Retardant Product Market Performance
- 10.7.4 Tateho Chemical Business Overview
- 10.7.5 Tateho Chemical Recent Developments
- 10.8 Nuova Sima
  - 10.8.1 Nuova Sima Basic Information
  - 10.8.2 Nuova Sima MDH Flame Retardant Product Overview
  - 10.8.3 Nuova Sima MDH Flame Retardant Product Market Performance
  - 10.8.4 Nuova Sima Business Overview
  - 10.8.5 Nuova Sima Recent Developments
- 10.9 Puyang Refractories
  - 10.9.1 Puyang Refractories Basic Information
  - 10.9.2 Puyang Refractories MDH Flame Retardant Product Overview
  - 10.9.3 Puyang Refractories MDH Flame Retardant Product Market Performance
  - 10.9.4 Puyang Refractories Business Overview
  - 10.9.5 Puyang Refractories Recent Developments
- 10.10 XuSen
  - 10.10.1 XuSen Basic Information
  - 10.10.2 XuSen MDH Flame Retardant Product Overview
  - 10.10.3 XuSen MDH Flame Retardant Product Market Performance
  - 10.10.4 XuSen Business Overview
  - 10.10.5 XuSen Recent Developments
- 10.11 Hellon
  - 10.11.1 Hellon Basic Information
  - 10.11.2 Hellon MDH Flame Retardant Product Overview
  - 10.11.3 Hellon MDH Flame Retardant Product Market Performance
  - 10.11.4 Hellon Business Overview
  - 10.11.5 Hellon Recent Developments
- 10.12 ATK Flame Retardant Materials
  - 10.12.1 ATK Flame Retardant Materials Basic Information
  - 10.12.2 ATK Flame Retardant Materials MDH Flame Retardant Product Overview
  - 10.12.3 ATK Flame Retardant Materials MDH Flame Retardant Product Market Performance
  - 10.12.4 ATK Flame Retardant Materials Business Overview
  - 10.12.5 ATK Flame Retardant Materials Recent Developments
- 10.13 Henan Qianghong Magnesium Industry
  - 10.13.1 Henan Qianghong Magnesium Industry Basic Information
  - 10.13.2 Henan Qianghong Magnesium Industry MDH Flame Retardant Product Overview
  - 10.13.3 Henan Qianghong Magnesium Industry MDH Flame Retardant Product Market

## Performance

10.13.4 Henan Qianghong Magnesium Industry Business Overview

10.13.5 Henan Qianghong Magnesium Industry Recent Developments

## 10.14 Dalian Yatai Technology New Materials

10.14.1 Dalian Yatai Technology New Materials Basic Information

10.14.2 Dalian Yatai Technology New Materials MDH Flame Retardant Product

## Overview

10.14.3 Dalian Yatai Technology New Materials MDH Flame Retardant Product Market

## Performance

10.14.4 Dalian Yatai Technology New Materials Business Overview

10.14.5 Dalian Yatai Technology New Materials Recent Developments

## 10.15 Guangdong Yuxing Fire-retardant New Materials

10.15.1 Guangdong Yuxing Fire-retardant New Materials Basic Information

10.15.2 Guangdong Yuxing Fire-retardant New Materials MDH Flame Retardant

## Product Overview

10.15.3 Guangdong Yuxing Fire-retardant New Materials MDH Flame Retardant

## Product Market Performance

10.15.4 Guangdong Yuxing Fire-retardant New Materials Business Overview

10.15.5 Guangdong Yuxing Fire-retardant New Materials Recent Developments

## **11 MDH FLAME RETARDANT MARKET FORECAST BY REGION**

### 11.1 Global MDH Flame Retardant Market Size Forecast

### 11.2 Global MDH Flame Retardant Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe MDH Flame Retardant Market Size Forecast by Country

11.2.3 Asia Pacific MDH Flame Retardant Market Size Forecast by Region

11.2.4 South America MDH Flame Retardant Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of MDH Flame Retardant by Country

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

### 12.1 Global MDH Flame Retardant Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of MDH Flame Retardant by Type (2026-2035)

12.1.2 Global MDH Flame Retardant Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of MDH Flame Retardant by Type (2026-2035)

### 12.2 Global MDH Flame Retardant Market Forecast by Application (2026-2035)

12.2.1 Global MDH Flame Retardant Sales (K MT) Forecast by Application

12.2.2 Global MDH Flame Retardant 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 MDH Flame Retardant Market Size by Type (M USD)
- Table 4. Global MDH Flame Retardant Market Size by Application
- Table 5. MDH Flame Retardant Market Size Comparison by Region (M USD)
- Table 6. Global MDH Flame Retardant Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global MDH Flame Retardant Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global MDH Flame Retardant Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global MDH Flame Retardant Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in MDH Flame Retardant as of 2025)
- Table 11. Global Market MDH Flame Retardant Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global MDH Flame Retardant 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. MDH Flame Retardant 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 MDH Flame Retardant Sales by Type (K MT)
- Table 27. Global MDH Flame Retardant Market Size by Type (M USD)
- Table 28. Global MDH Flame Retardant Sales (K MT) by Type (2020-2025)
- Table 29. Global MDH Flame Retardant Sales Market Share by Type (2020-2025)

- Table 30. Global MDH Flame Retardant Market Size (M USD) by Type (2020-2025)
- Table 31. Global MDH Flame Retardant Market Share by Type (2020-2025)
- Table 32. Global MDH Flame Retardant Price (USD/KG) by Type (2020-2025)
- Table 33. Global MDH Flame Retardant Sales (K MT) by Application
- Table 34. Global MDH Flame Retardant Market Size by Application
- Table 35. Global MDH Flame Retardant Sales by Application (2020-2025) & (K MT)
- Table 36. Global MDH Flame Retardant Sales Market Share by Application (2020-2025)
- Table 37. Global MDH Flame Retardant Market Size by Application (2020-2025) & (M USD)
- Table 38. Global MDH Flame Retardant Market Share by Application (2020-2025)
- Table 39. Global MDH Flame Retardant Sales Growth Rate by Application (2020-2025)
- Table 40. Global MDH Flame Retardant Sales by Region (2020-2025) & (K MT)
- Table 41. Global MDH Flame Retardant Sales Market Share by Region (2020-2025)
- Table 42. Global MDH Flame Retardant Market Size by Region (2020-2025) & (M USD)
- Table 43. Global MDH Flame Retardant Market Size by Region (2020-2025)
- Table 44. North America MDH Flame Retardant Sales by Country (2020-2025) & (K MT)
- Table 45. North America MDH Flame Retardant Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe MDH Flame Retardant Sales by Country (2020-2025) & (K MT)
- Table 47. Europe MDH Flame Retardant Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific MDH Flame Retardant Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific MDH Flame Retardant Market Size by Region (2020-2025) & (M USD)
- Table 50. South America MDH Flame Retardant Sales by Country (2020-2025) & (K MT)
- Table 51. South America MDH Flame Retardant Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa MDH Flame Retardant Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa MDH Flame Retardant Market Size by Region (2020-2025) & (M USD)
- Table 54. Global MDH Flame Retardant Production (K MT) by Region(2020-2025)
- Table 55. Global MDH Flame Retardant Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global MDH Flame Retardant Revenue Market Share by Region (2020-2025)
- Table 57. Global MDH Flame Retardant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America MDH Flame Retardant Production (K MT), Revenue (US\$

Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe MDH Flame Retardant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan MDH Flame Retardant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China MDH Flame Retardant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. ICL Basic Information

Table 63. ICL MDH Flame Retardant Product Overview

Table 64. ICL MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. ICL Business Overview

Table 66. ICL SWOT Analysis

Table 67. ICL Recent Developments

Table 68. Huber Engineered Materials Basic Information

Table 69. Huber Engineered Materials MDH Flame Retardant Product Overview

Table 70. Huber Engineered Materials MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Huber Engineered Materials Business Overview

Table 72. Huber Engineered Materials SWOT Analysis

Table 73. Huber Engineered Materials Recent Developments

Table 74. Martin Marietta Basic Information

Table 75. Martin Marietta MDH Flame Retardant Product Overview

Table 76. Martin Marietta MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Martin Marietta Business Overview

Table 78. Martin Marietta SWOT Analysis

Table 79. Martin Marietta Recent Developments

Table 80. Kyowa Chemical Basic Information

Table 81. Kyowa Chemical MDH Flame Retardant Product Overview

Table 82. Kyowa Chemical MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Kyowa Chemical Business Overview

Table 84. Kyowa Chemical Recent Developments

Table 85. Ube Material Industries Basic Information

Table 86. Ube Material Industries MDH Flame Retardant Product Overview

Table 87. Ube Material Industries MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Ube Material Industries Business Overview

- Table 89. Ube Material Industries Recent Developments
- Table 90. Konoshima Basic Information
- Table 91. Konoshima MDH Flame Retardant Product Overview
- Table 92. Konoshima MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 93. Konoshima Business Overview
- Table 94. Konoshima Recent Developments
- Table 95. Tateho Chemical Basic Information
- Table 96. Tateho Chemical MDH Flame Retardant Product Overview
- Table 97. Tateho Chemical MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. Tateho Chemical Business Overview
- Table 99. Tateho Chemical Recent Developments
- Table 100. Nuova Sima Basic Information
- Table 101. Nuova Sima MDH Flame Retardant Product Overview
- Table 102. Nuova Sima MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Nuova Sima Business Overview
- Table 104. Nuova Sima Recent Developments
- Table 105. Puyang Refractories Basic Information
- Table 106. Puyang Refractories MDH Flame Retardant Product Overview
- Table 107. Puyang Refractories MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. Puyang Refractories Business Overview
- Table 109. Puyang Refractories Recent Developments
- Table 110. XuSen Basic Information
- Table 111. XuSen MDH Flame Retardant Product Overview
- Table 112. XuSen MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 113. XuSen Business Overview
- Table 114. XuSen Recent Developments
- Table 115. Hellon Basic Information
- Table 116. Hellon MDH Flame Retardant Product Overview
- Table 117. Hellon MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 118. Hellon Business Overview
- Table 119. Hellon Recent Developments
- Table 120. ATK Flame Retardant Materials Basic Information
- Table 121. ATK Flame Retardant Materials MDH Flame Retardant Product Overview

Table 122. ATK Flame Retardant Materials MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 123. ATK Flame Retardant Materials Business Overview

Table 124. ATK Flame Retardant Materials Recent Developments

Table 125. Henan Qianghong Magnesium Industry Basic Information

Table 126. Henan Qianghong Magnesium Industry MDH Flame Retardant Product Overview

Table 127. Henan Qianghong Magnesium Industry MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 128. Henan Qianghong Magnesium Industry Business Overview

Table 129. Henan Qianghong Magnesium Industry Recent Developments

Table 130. Dalian Yatai Technology New Materials Basic Information

Table 131. Dalian Yatai Technology New Materials MDH Flame Retardant Product Overview

Table 132. Dalian Yatai Technology New Materials MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 133. Dalian Yatai Technology New Materials Business Overview

Table 134. Dalian Yatai Technology New Materials Recent Developments

Table 135. Guangdong Yuxing Fire-retardant New Materials Basic Information

Table 136. Guangdong Yuxing Fire-retardant New Materials MDH Flame Retardant Product Overview

Table 137. Guangdong Yuxing Fire-retardant New Materials MDH Flame Retardant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 138. Guangdong Yuxing Fire-retardant New Materials Business Overview

Table 139. Guangdong Yuxing Fire-retardant New Materials Recent Developments

Table 140. Global MDH Flame Retardant Sales Forecast by Region (2026-2035) & (K MT)

Table 141. Global MDH Flame Retardant Market Size Forecast by Region (2026-2035) & (M USD)

Table 142. North America MDH Flame Retardant Sales Forecast by Country (2026-2035) & (K MT)

Table 143. North America MDH Flame Retardant Market Size Forecast by Country (2026-2035) & (M USD)

Table 144. Europe MDH Flame Retardant Sales Forecast by Country (2026-2035) & (K MT)

Table 145. Europe MDH Flame Retardant Market Size Forecast by Country (2026-2035) & (M USD)

Table 146. Asia Pacific MDH Flame Retardant Sales Forecast by Region (2026-2035) & (K MT)

Table 147. Asia Pacific MDH Flame Retardant Market Size Forecast by Region (2026-2035) & (M USD)

Table 148. South America MDH Flame Retardant Sales Forecast by Country (2026-2035) & (K MT)

Table 149. South America MDH Flame Retardant Market Size Forecast by Country (2026-2035) & (M USD)

Table 150. Middle East and Africa MDH Flame Retardant Sales Forecast by Country (2026-2035) & (Units)

Table 151. Middle East and Africa MDH Flame Retardant Market Size Forecast by Country (2026-2035) & (M USD)

Table 152. Global MDH Flame Retardant Sales Forecast by Type (2026-2035) & (K MT)

Table 153. Global MDH Flame Retardant Market Size Forecast by Type (2026-2035) & (M USD)

Table 154. Global MDH Flame Retardant Price Forecast by Type (2026-2035) & (USD/KG)

Table 155. Global MDH Flame Retardant Sales (K MT) Forecast by Application (2026-2035)

Table 156. Global MDH Flame Retardant Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of MDH Flame Retardant
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global MDH Flame Retardant Market Size (M USD), 2025-2035
- Figure 5. Global MDH Flame Retardant Market Size (M USD) (2020-2035)
- Figure 6. Global MDH Flame Retardant 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. MDH Flame Retardant Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global MDH Flame Retardant Product Life Cycle
- Figure 13. MDH Flame Retardant Sales Share by Manufacturers in 2025
- Figure 14. Global MDH Flame Retardant Revenue Share by Manufacturers in 2025
- Figure 15. MDH Flame Retardant Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market MDH Flame Retardant Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by MDH Flame Retardant Revenue in 2025
- Figure 18. Industry Chain Map of MDH Flame Retardant
- Figure 19. Global MDH Flame Retardant Market PEST Analysis
- Figure 20. Global MDH Flame Retardant 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 MDH Flame Retardant Market Share by Type
- Figure 27. Sales Market Share of MDH Flame Retardant by Type (2020-2025)
- Figure 28. Sales Market Share of MDH Flame Retardant by Type in 2025
- Figure 29. Market Share of MDH Flame Retardant by Type (2020-2025)
- Figure 30. Market Share of MDH Flame Retardant by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global MDH Flame Retardant Market Share by Application

- Figure 33. Global MDH Flame Retardant Sales Market Share by Application (2020-2025)
- Figure 34. Global MDH Flame Retardant Sales Market Share by Application in 2025
- Figure 35. Global MDH Flame Retardant Market Share by Application (2020-2025)
- Figure 36. Global MDH Flame Retardant Market Share by Application in 2025
- Figure 37. Global MDH Flame Retardant Sales Growth Rate by Application (2020-2025)
- Figure 38. Global MDH Flame Retardant Sales Market Share by Region (2020-2025)
- Figure 39. Global MDH Flame Retardant Market Size by Region (2020-2025)
- Figure 40. North America MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America MDH Flame Retardant Sales Market Share by Country in 2024
- Figure 43. North America MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America MDH Flame Retardant Market Size by Country in 2024
- Figure 45. U.S. MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada MDH Flame Retardant Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada MDH Flame Retardant Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico MDH Flame Retardant Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico MDH Flame Retardant Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe MDH Flame Retardant Sales Market Share by Country in 2024
- Figure 53. Europe MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe MDH Flame Retardant Market Size by Country in 2024
- Figure 55. Germany MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 56. Germany MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 58. France MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific MDH Flame Retardant Sales and Growth Rate (K MT)

Figure 66. Asia Pacific MDH Flame Retardant Sales Market Share by Region in 2024

Figure 67. Asia Pacific MDH Flame Retardant Market Size by Region in 2024

Figure 68. China MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America MDH Flame Retardant Sales and Growth Rate (K MT)

Figure 79. South America MDH Flame Retardant Sales Market Share by Country in 2024

Figure 80. South America MDH Flame Retardant Market Size and Growth Rate (M USD)

Figure 81. South America MDH Flame Retardant Market Size by Country in 2024

Figure 82. Brazil MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)

- Figure 85. Argentina MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 86. Columbia MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 87. Columbia MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 88. Middle East and Africa MDH Flame Retardant Sales and Growth Rate (K MT)
- Figure 89. Middle East and Africa MDH Flame Retardant Sales Market Share by Region in 2024
- Figure 90. Middle East and Africa MDH Flame Retardant Market Size and Growth Rate (M USD)
- Figure 91. Middle East and Africa MDH Flame Retardant Market Size by Region in 2024
- Figure 92. Saudi Arabia MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 93. Saudi Arabia MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 94. UAE MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 95. UAE MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 96. Egypt MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 97. Egypt MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 98. Nigeria MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 99. Nigeria MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 100. South Africa MDH Flame Retardant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 101. South Africa MDH Flame Retardant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 102. Global MDH Flame Retardant Production Market Share by Region (2020-2025)
- Figure 103. North America MDH Flame Retardant Production (K MT) Growth Rate (2020-2025)
- Figure 104. Europe MDH Flame Retardant Production (K MT) Growth Rate (2020-2025)
- Figure 105. Japan MDH Flame Retardant Production (K MT) Growth Rate (2020-2025)
- Figure 106. China MDH Flame Retardant Production (K MT) Growth Rate (2020-2025)
- Figure 107. Global MDH Flame Retardant Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global MDH Flame Retardant Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global MDH Flame Retardant Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global MDH Flame Retardant Market Share Forecast by Type (2026-2035)

Figure 111. Global MDH Flame Retardant Sales Forecast by Application (2026-2035)

Figure 112. Global MDH Flame Retardant Market Share Forecast by Application (2026-2035)

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