

Penoxsulam Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Product (Liquid Concentration, Granules), By Crop (Rice, Aquatic Plants, Others), By Application (Agrochemical, Fertilizer, Pharmaceutical, Food Additive, Biochemical, Others), By Region & Competition, 2020-2030F

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Report description:

The global penoxsulam market was valued at USD 375.45 million in 2024 and is expected to exhibit steady growth over the forecast period, with a projected compound annual growth rate (CAGR) of 4.05% through 2030. This market has witnessed significant development in recent years, driven by increasing demand for efficient herbicides across multiple sectors. Penoxsulam is a highly versatile herbicide, extensively utilized in agriculture for the control of a wide range of weeds in rice paddies, aquatic environments, and turfgrass management. Its expanding market presence can be attributed to several key growth drivers, including the rising global demand for food, the adoption of modern agricultural practices, and the growing need for effective and sustainable weed management solutions.

Key Market Drivers

Rising Global Demand for Rice Production

One of the primary drivers of the penoxsulam market is the growing global demand for rice, which directly correlates with the need for effective post-emergence herbicides. China and India lead global rice production, each accounting for approximately 27% of the total market, with annual outputs of 145.28 million and 145 million metric tons, respectively. Bangladesh follows with 7% (36.6 million metric tons), while Indonesia, Vietnam, and Thailand contribute 6% (34 million), 5% (26.5 million), and 4% (20.1 million), respectively. Other key contributors include the Philippines, Myanmar, Pakistan, and Brazil.

Penoxsulam plays a critical role in maximizing rice yields by effectively controlling broadleaf weeds, grasses, and sedges. As agricultural stakeholders focus on enhancing productivity, sustainability, and food security, the demand for penoxsulam continues to rise.

Notably, initiatives such as the USD 766 million West Africa Food Systems Resilience Program are reinforcing regional capabilities

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to manage food insecurity. These efforts involve the enhancement of digital advisory services and the development of climate-resilient strategies, thereby supporting the broader adoption of efficient herbicides like penoxsulam.

Rice remains a dietary staple for over half of the global population, particularly across Asia, Africa, and Latin America. With growing urbanization and shifting dietary preferences, consumption continues to rise.

Key Market Challenges

Development of Herbicide Resistance in Weeds

A major challenge facing the global penoxsulam market is the emergence of herbicide-resistant weed species. Continuous and repeated application of penoxsulam has, in some cases, led to the development of resistance among certain weed populations, diminishing the herbicide's overall efficacy.

Resistance arises when specific weed species adapt to the herbicide's mode of action, reducing its impact. Over time, this selective pressure results in resistant populations that proliferate, compromising crop yields and increasing production costs for farmers. As a result, growers may be compelled to seek alternative, often more costly, weed control strategies, thereby affecting profitability and long-term sustainability.

Key Market Trends

Adoption of Modern Farming Practices

The widespread adoption of modern farming methods is significantly contributing to the growth of the global penoxsulam market. In today's data-driven agricultural landscape, farmers are increasingly leveraging advanced technologies to improve productivity while minimizing environmental impact.

Penoxsulam's compatibility with precision agriculture has positioned it as a critical tool in contemporary weed management. This compatibility allows for targeted application, reducing the volume of herbicide used and mitigating runoff into adjacent ecosystems. The efficiency of penoxsulam application is further enhanced by advanced machinery and automated systems, ensuring even distribution and maximizing weed control outcomes.

Key Market Players

- [] BASF SE
- [] Bayer AG
- [] Chemtura Corp
- [] Crystal Crop Protection Pvt Ltd
- [] Dow AgroSciences
- [] Hangzhou Tianlong Biotechnology Co., Ltd
- [] Monsanto Company
- [] Nufarm Ltd
- [] Shijiazhuang Xingbai Bioengineering Co., Ltd.
- [] Syngenta AG

Report Scope:

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

- [] Penoxsulam Market, By Product:

- o Liquid Concentration
- o Granules

- [] Penoxsulam Market, By Crop:

- o Rice
- o Aquatic Plants
- o Others

- [] Penoxsulam Market, By Application:

- o Agrochemical
- o Fertilizer
- o Pharmaceutical

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- o Food Additive
- o Biochemical
- o Others

-□Penoxsulam Market, By Region:

- o North America
 - United States
 - 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 Penoxsulam Market.

Available Customizations:

Global Penoxsulam 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

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- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations
- 3. Executive Summary
 - 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, Trends
- 4. Global Penoxsulam Market Outlook
 - 4.1. Market Size & Forecast
 - 4.1.1. By Value
 - 4.2. Market Share & Forecast
 - 4.2.1. By Product (Liquid Concentration, Granules)
 - 4.2.2. By Crop (Rice, Aquatic Plants, Others)
 - 4.2.3. By Application (Agrochemical, Fertilizer, Pharmaceutical, Food Additive, Biochemical, Others)
 - 4.2.4. By Region
 - 4.2.5. By Company (2024)
 - 4.3. Market Map
 - 4.3.1. By Product
 - 4.3.2. By Crop
 - 4.3.3. By Application
 - 4.3.4. By Region
- 5. Asia Pacific Penoxsulam Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Product
 - 5.2.2. By Crop
 - 5.2.3. By Application
 - 5.2.4. By Country
 - 5.3. Asia Pacific: Country Analysis
 - 5.3.1. China Penoxsulam Market Outlook
 - 5.3.1.1. Market Size & Forecast
 - 5.3.1.1.1. By Value
 - 5.3.1.2. Market Share & Forecast
 - 5.3.1.2.1. By Product
 - 5.3.1.2.2. By Crop
 - 5.3.1.2.3. By Application
 - 5.3.2. India Penoxsulam Market Outlook
 - 5.3.2.1. Market Size & Forecast
 - 5.3.2.1.1. By Value
 - 5.3.2.2. Market Share & Forecast
 - 5.3.2.2.1. By Product
 - 5.3.2.2.2. By Crop
 - 5.3.2.2.3. By Application

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- 5.3.3. Australia Penoxsulam Market Outlook
 - 5.3.3.1. Market Size & Forecast
 - 5.3.3.1.1. By Value
 - 5.3.3.2. Market Share & Forecast
 - 5.3.3.2.1. By Product
 - 5.3.3.2.2. By Crop
 - 5.3.3.2.3. By Application
- 5.3.4. Japan Penoxsulam Market Outlook
 - 5.3.4.1. Market Size & Forecast
 - 5.3.4.1.1. By Value
 - 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Product
 - 5.3.4.2.2. By Crop
 - 5.3.4.2.3. By Application
- 5.3.5. South Korea Penoxsulam Market Outlook
 - 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
 - 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Product
 - 5.3.5.2.2. By Crop
 - 5.3.5.2.3. By Application
- 6. Europe Penoxsulam Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Product
 - 6.2.2. By Crop
 - 6.2.3. By Application
 - 6.2.4. By Country
 - 6.3. Europe: Country Analysis
 - 6.3.1. France Penoxsulam 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 Product
 - 6.3.1.2.2. By Crop
 - 6.3.1.2.3. By Application
 - 6.3.2. Germany Penoxsulam 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 Product
 - 6.3.2.2.2. By Crop
 - 6.3.2.2.3. By Application
 - 6.3.3. Spain Penoxsulam Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value

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- 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product
 - 6.3.3.2.2. By Crop
 - 6.3.3.2.3. By Application
- 6.3.4. Italy Penoxsulam Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Product
 - 6.3.4.2.2. By Crop
 - 6.3.4.2.3. By Application
- 6.3.5. United Kingdom Penoxsulam Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Product
 - 6.3.5.2.2. By Crop
 - 6.3.5.2.3. By Application
- 7. North America Penoxsulam Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Product
 - 7.2.2. By Crop
 - 7.2.3. By Application
 - 7.2.4. By Country
 - 7.3. North America: Country Analysis
 - 7.3.1. United States Penoxsulam 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 Product
 - 7.3.1.2.2. By Crop
 - 7.3.1.2.3. By Application
 - 7.3.2. Mexico Penoxsulam 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 Product
 - 7.3.2.2.2. By Crop
 - 7.3.2.2.3. By Application
 - 7.3.3. Canada Penoxsulam 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 Product
 - 7.3.3.2.2. By Crop

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- 7.3.3.2.3. By Application
- 8. South America Penoxsulam Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Product
 - 8.2.2. By Crop
 - 8.2.3. By Application
 - 8.2.4. By Country
 - 8.3. South America: Country Analysis
 - 8.3.1. Brazil Penoxsulam 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 Product
 - 8.3.1.2.2. By Crop
 - 8.3.1.2.3. By Application
 - 8.3.2. Argentina Penoxsulam Market Outlook
 - 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 Product
 - 8.3.2.2.2. By Crop
 - 8.3.2.2.3. By Application
 - 8.3.3. Colombia Penoxsulam 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 Product
 - 8.3.3.2.2. By Crop
 - 8.3.3.2.3. By Application
 - 9. Middle East and Africa Penoxsulam Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Crop
 - 9.2.3. By Application
 - 9.2.4. By Country
 - 9.3. MEA: Country Analysis
 - 9.3.1. South Africa Penoxsulam 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 Product
 - 9.3.1.2.2. By Crop
 - 9.3.1.2.3. By Application

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- 9.3.2. Saudi Arabia Penoxsulam 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 Product
 - 9.3.2.2.2. By Crop
 - 9.3.2.2.3. By Application
- 9.3.3. UAE Penoxsulam Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product
 - 9.3.3.2.2. By Crop
 - 9.3.3.2.3. By Application
- 10. Market Dynamics
 - 10.1. Drivers
 - 10.2. Challenges
- 11. Market Trends & Developments
 - 11.1. Recent Developments
 - 11.2. Product Launches
 - 11.3. Mergers & Acquisitions
- 12. Global Penoxsulam Market: SWOT Analysis
- 13. Porter's Five Forces Analysis
 - 13.1. Competition in the Industry
 - 13.2. Potential of New Entrants
 - 13.3. Power of Suppliers
 - 13.4. Power of Customers
 - 13.5. Threat of Substitute Product
- 14. Competitive Landscape
 - 14.1. BASF SE
 - 14.1.1. Business Overview
 - 14.1.2. Company Snapshot
 - 14.1.3. Products & Services
 - 14.1.4. Financials (In case of listed)
 - 14.1.5. Recent Developments
 - 14.1.6. SWOT Analysis
 - 14.2. Bayer AG
 - 14.3. Chemtura Corp
 - 14.4. Crystal Crop Protection Pvt Ltd
 - 14.5. Dow AgroSciences
 - 14.6. Hangzhou Tianlong Biotechnology Co., Ltd
 - 14.7. Monsanto Company
 - 14.8. Nufarm Ltd
 - 14.9. Shijiazhuang Xingbai Bioengineering Co., Ltd.
 - 14.10. Syngenta AG
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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