

Pyrethroids Market Report by Product Type (Bifenthrin, Deltamethrin, Permethrin, Cypermethrin, Cyfluthrin, Lambda-Cyhalothrin, and Others), Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, and Others), Pest Type (Lepidoptera, Sucking Pests, Coleoptera, Diptera, Mites, and Others), and Region 2024-2032

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Abstracts

The global pyrethroids market size reached US\$ 3.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.6 Billion by 2032, exhibiting a growth rate (CAGR) of 4.6% during 2024-2032. The growing product demand in the agriculture industry, rising awareness of vector-borne diseases, implementation of supportive government regulations, continuous research and development(R&D) in the field of pyrethroids, and increasing consumer shift towards bio-based and organic products are some of the major factors propelling the market.

Pyrethroids are synthetic organic chemicals that act as natural insecticides secreted by the chrysanthemum flower. They are commercially synthesized using the esterification of acid and alcohol derivatives. Pyrethroids are extensively used in household insecticides, agricultural pest control, timber treatment, vector control, textile protection, and more. It offers several benefits, such as high effectiveness, low toxicity to mammals, easy biodegradability, affordability, compatibility with other pesticides, and various formulation possibilities. Pyrethroids also provide quick action, long-lasting effects, broad-spectrum control, environmental friendliness, and low application rates.

The continuous research and development (R&D) in the field of pyrethroids leading to innovative formulation techniques, which provide enhanced effectiveness, adaptability

to diverse applications, and allow targeted and controlled release, is positively influencing the market growth. Furthermore, the growing product adoption owing to its ability to mix with fertilizers effectively enabling simultaneous pest control and nourishment of crops is positively influencing the market growth. Additionally, the increasing consumer shift towards bio-based and organic products is facilitating the product demand as they are considered more eco-friendly compared to other synthetic pesticides. Moreover, the widespread product utilization due to the development of resistance in certain pest populations to traditional pesticides is contributing to the market growth. Besides this, increasing product application in textile protection to prevent damage from insects is strengthening the market growth.

Pyrethroids Market Trends/Drivers:

The growing product demand in the agriculture industry

The rising emphasis on enhanced food production to meet the needs of an escalating population is facilitating the demand for efficient control of pests and insects. Pyrethroids, with their efficacy and cost-effectiveness, provide an effective solution to pest problems in the agricultural sector. They play a vital role in safeguarding crops from a wide range of pests, thereby improving crop yield and quality. Furthermore, the increasing adoption of modern farming techniques and integrated pest management practices has further propelled the demand for pyrethroids. In addition, their compatibility with other pesticides and the various formulation possibilities enables tailored solutions for specific crop needs. Moreover, their relatively low environmental impact compared to other chemicals further augments their attractiveness in sustainable agricultural practices.

The rising awareness of vector-borne diseases

The rapid urbanization across the globe is leading to increased population density, which, in turn, is facilitating the spread of vector-borne diseases carried by mosquitoes, ticks, and other insects. In line with this, pyrethroids are extensively used in public health programs to control these vectors. Furthermore, their quick action and long-lasting effects make them suitable for both indoor and outdoor use. Apart from this, the growing public health campaigns and increasing awareness about diseases, such as malaria and dengue, are further fueling the demand for pyrethroids. Moreover, governments and healthcare organizations are actively promoting the use of pyrethroids as part of integrated vector management strategies. The recognition of pyrethroids as vital tools in disease prevention is boosting the market demand.

The implementation of supportive government regulations

Governments and international organizations have become conscious of the environmental impact of agricultural practices. This consciousness has led to the formulation of regulations and guidelines promoting the use of environmentally friendly pesticides, such as pyrethroids. These compounds are biodegradable, generate minimal residue in soil and water, and exhibit low toxicity toward non-target organisms. In addition, the imposition of supportive policies by regulatory bodies encouraging their adoption by providing incentives and disseminating information about their benefits is favoring the market growth. Furthermore, the alignment of pyrethroids with the global shift towards sustainable development and eco-friendly practices is acting as another growth-inducing factor. These compounds are biodegradable, generate minimal residue in soil and water, and exhibit low toxicity toward non-target organisms. In addition, the imposition of supportive policies by regulatory bodies encouraging their adoption by providing incentives and disseminating information about their benefits is favoring the market growth. Furthermore, the alignment of pyrethroids with the global shift towards sustainable development and eco-friendly practices is acting as another growth-inducing factor. Additionally, the growing demand for pyrethroids owing to their central role in reconciling the need for effective pest control with the imperative to protect the environment, is boosting the market growth.

Pyrethroids Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global pyrethroids market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on product type, crop type and pest type.

Breakup by Product Type:

- Bifenthrin
- Deltamethrin
- Permethrin
- Cypermethrin
- Cyfluthrin
- Lambda-Cyhalothrin
- Others

Cypermethrin dominates the market

The report has provided a detailed breakup and analysis of the market based on the product type. This includes bifenthrin, deltamethrin, permethrin, cypermethrin, cyfluthrin, lambda-cyhalothrin, and others. According to the report, cypermethrin represented the largest market segment.

Cypermethrin is dominating the market as it is employed across various sectors, including agriculture, public health, veterinary use, and household products. Its versatility in controlling diverse pests makes it an attractive choice for multiple applications. Furthermore, its efficacy against a broad spectrum of insects, including aphids, fleas, ticks, and mites, has made it a preferred choice for pest control. Additionally, cypermethrin is known for its low toxicity to mammals and its biodegradability, which aligns with the current global trends toward more environmentally responsible pest control solutions. Moreover, the chemical structure of cypermethrin allows for various formulations, enabling targeted solutions for specific pest problems. This flexibility in formulation leads to its wide adoption in different industries.

Breakup by Crop Type:

- Cereals & Grains
- Oilseeds & Pulses
- Fruits & Vegetables
- Others

Oilseeds & pulses dominate the market

The report has provided a detailed breakup and analysis of the market based on the crop type. This includes cereals & grains, oilseeds & pulses, fruits & vegetables, and others. According to the report, oilseeds & pulses represented the largest market segment.

Oilseeds & pulses are dominating the market as they are key crops with significant economic value. Furthermore, these crops are more susceptible to a wide range of insect pests that can significantly impact yields. Pyrethroids offer effective control over these pests, making them an essential part of crop protection strategies. Additionally, the growing demand for vegetable oils and protein-rich food has led to an increase in oilseed and pulse cultivation. This trend correlates with an increased need for effective pest management solutions, such as pyrethroids. Moreover, the introduction of modern agriculture practices in oilseeds & pulses cultivation, which emphasizes integrated pest

management, where pyrethroids play a key role, is boosting the market growth.

Breakup by Pest Type:

- Lepidoptera
- Sucking Pests
- Coleoptera
- Diptera
- Mites
- Others

Lepidoptera dominates the market

The report has provided a detailed breakup and analysis of the market based on the pest type. This includes lepidoptera, sucking pests, coleoptera, diptera, mites, and others. According to the report, lepidoptera represented the largest market segment.

Lepidoptera is dominating the market growth as it causes significant damage to various crops, including fruits, vegetables, grains, and ornamentals. The sheer breadth of crops affected necessitates robust control measures. Furthermore, the presence of Lepidoptera across various geographic regions, which requires a universal approach to pest control, is acting as another growth-inducing factor. Apart from this, several species of Lepidoptera have developed resistance to traditional insecticides, making pyrethroids a vital alternative due to their different modes of action. Moreover, the economic losses attributed to lepidoptera infestation in agriculture are substantial. In line with this, pyrethroids offer an effective and economically viable solution, further driving their use. Besides this, the use of pyrethroids against Lepidoptera aligns with modern, sustainable agricultural practices due to their relative environmental friendliness and low toxicity to non-target organisms.

Breakup by Region:

- Asia Pacific
- Europe
- North America
- Middle East and Africa
- Latin America

Asia Pacific exhibits a clear dominance in the market, accounting for the largest

pyrethroids market share

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, Europe, North America, Middle East and Africa, and Latin America. According to the report, Asia Pacific represented the largest market segment.

Asia is dominating the pyrethroids market due to the presence of a vast and diverse agricultural landscape, including significant production of rice, wheat, fruits, vegetables, oilseeds, and pulses, which creates a substantial demand for effective pest control solutions, such as pyrethroids. Furthermore, the tropical and subtropical climate in many parts of Asia provides favorable conditions for various pests, including Lepidoptera, necessitating the extensive use of pyrethroids. Additionally, the increasing focus on maximizing agricultural productivity to feed a growing population in the region is acting as another growth-inducing factor. Moreover, pyrethroids are more cost-effective compared to other insecticides, aligning with the budget considerations of small and medium-sized farmers, who constitute a significant portion of the agricultural sector in Asia. Besides this, the implementation of supportive policies by regional governments to encourage the adoption of pyrethroids is favoring the market growth.

Competitive Landscape:

The leading pyrethroid companies are developing new formulations, enhancing existing products, and creating solutions that are more environmentally friendly, effective against resistant pests, and tailored to specific regional needs. Moreover, they are expanding their presence through partnerships, acquisitions, and setting up local manufacturing facilities. Additionally, several key players are forming alliances with universities, research institutions, and other companies to leverage collective expertise to innovate and create cutting-edge pyrethroid solutions. Moreover, companies are working to align their products with global sustainability goals, emphasizing reduced environmental impact and social responsibility. This includes developing pyrethroids that are less harmful to non-target organisms. Besides this, leading companies are proactively engaging with regulators and following best practices to ensure that the products meet all legal requirements in various jurisdictions.

The report has provided a comprehensive analysis of the competitive landscape in the global pyrethroids market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

BASF

Bayer CropScience
Corteva Agriscience
Nufarm
SinoHarvest Corporation
Sumitomo Chemical
Syngenta
United Phosphorus
Arysta Lifescience
Cheminova
FMC
Monsanto
Shanghai Mingdou Agrochemical
Adama Agricultural Solutions Ltd.

Recent Developments:

In December 2022, BASF, along with MedAccess, announced that they had completed the shipment of 35 million Interceptor G2 nets to fight malaria. These nets are treated with pyrethroid and pyrrole compounds.

In November 2021, Corteva Agriscience launched a new Soybean insecticide Ridgeback that will effectively target pyrethroid-resistant soybean aphids.

In April 2021, Nufarm launched Danitol, which is a Group 3 pyrethroid insecticide that control pests from several different families of insect.

Key Questions Answered in This Report

1. What is the market size for the global pyrethroids market 2023?
2. What is the global pyrethroids market growth 2024-2032?
3. What are the global pyrethroids market drivers?
4. What are the key industry trends in the global pyrethroids market?
5. What is the impact of COVID-19 on the global pyrethroids market?
6. What is the global pyrethroids market breakup by product type?
7. What is the global pyrethroids market breakup by crop type?
8. What is the global pyrethroids market breakup by pest type?
9. What are the major regions in the global pyrethroids market?
10. Who are the key companies/players in the global pyrethroids market?

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