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Pyrethroids Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By Type (Bifenthrin, Deltamethrin, Permethrin, Cypermethrin, Cyfluthrin, Lambda-Cyhalothrin, Others), By Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, Others), By Region and Competition

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Abstracts

Global Pyrethroids Market has reached reach USD 3.14 billion by 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 4.26% through 2029. Pyrethroids are synthetic organic chemicals derived from the chrysanthemum flower. These compounds, commercially synthesized through esterification, possess insecticidal properties and find wide application in various sectors. They are extensively used in household insecticides, agricultural pest control, timber treatment, vector control, textile protection, and more.

The advantages of pyrethroids are manifold - they are highly effective, exhibit low toxicity to mammals, readily biodegradable, affordable, and compatible with other pesticides. Moreover, pyrethroids offer versatility in formulation, ensuring quick action, long-lasting effects, and broad-spectrum control. Their environmental friendliness and low application rates contribute to their popularity.

Continuous research and development in the field of pyrethroids have led to innovative formulation techniques, enhancing their effectiveness and adaptability across diverse applications. These advancements enable targeted and controlled release, positively impacting market growth. Furthermore, the increasing adoption of pyrethroids stems from their ability to be effectively mixed with fertilizers, allowing simultaneous pest

control and crop nourishment.

Additionally, the growing consumer preference for bio-based and organic products drives the demand for pyrethroids, as they are considered more eco-friendly compared to other synthetic pesticides. Moreover, the widespread utilization of pyrethroids is driven by the development of resistance in certain pest populations to traditional pesticides. Additionally, the application of pyrethroids in textile protection to prevent damage from insects further strengthens market growth.

In summary, the multifaceted benefits of pyrethroids, coupled with continuous R&D efforts, increasing consumer preference for eco-friendly solutions, and the need for effective pest control, are driving the growth of the pyrethroids market.

Key Market Drivers

Rise in Agricultural Practices

Pyrethroids are synthetic chemical compounds, similar to the natural pyrethrins produced by flowers of pyrethrums. These compounds have gained widespread use as insecticides in various sectors, including agriculture, public health, and household applications. Due to their effectiveness and affordability, pyrethroids have become a go-to solution for pest control, playing a vital role in enhancing agricultural productivity and protecting crops from damaging pests.

As global agricultural activities continue to expand to meet the demands of a growing population, the need for pyrethroids is expected to rise correspondingly. The increasing demand for food and the importance of ensuring higher crop yields have made the role of pyrethroids in protecting crops more critical than ever. These compounds offer an effective means of keeping pests at bay, contributing to overall agricultural sustainability and food security.

The rise in agricultural practices is a significant driver of the global pyrethroids market. The continuous growth in the need for effective pest control in agriculture further fuels the demand for pyrethroids. As farmers strive to achieve higher yields and combat pests that can cause significant damage to crop, the demand for these insecticides is projected to increase steadily.

In conclusion, pyrethroids play a crucial role in modern agriculture, offering an effective and economical solution for pest control. As the global population continues to rise and

the need to boost agricultural productivity becomes more pressing, the demand for pyrethroids is expected to grow, contributing to the overall growth of the pyrethroids market.

Growing Emphasis on Crop Protection

Pyrethroids are synthetic chemical compounds that mimic the insecticidal properties of natural pyrethrins produced by chrysanthemum flowers. They have a broad spectrum of activity against various pests and are widely used in agriculture for effective crop protection. Pyrethroids are known for their high effectiveness, low toxicity towards mammals, and rapid degradation in the environment, making them a preferred choice for many farmers seeking sustainable pest control solutions.

Effective crop protection practices using pyrethroids can lead to increased agricultural productivity by minimizing the damage caused by pests. This not only benefits the farmers by ensuring healthier and more abundant harvests, but it also contributes to global food security. With the ever-growing global population, ensuring a stable and sufficient food supply is a critical concern.

Moreover, pyrethroids' rapid degradation in the environment makes them more environmentally friendly compared to many other types of pesticides. This aligns with the growing global emphasis on sustainable farming practices, aimed at minimizing the negative impact of agricultural activities on the ecosystem. By choosing pyrethroids for crop protection, farmers can reduce the potential risk of residual pesticide accumulation in the soil and water, promoting a healthier and more sustainable environment for future generations.

In conclusion, the growing emphasis on crop protection is a significant driver of the global pyrethroids market. As the global agricultural sector continues to recognize the importance of effective and sustainable crop protection practices, the demand for pyrethroids is expected to rise. This increased demand will contribute to the continued growth of the pyrethroids market, as more farmers adopt these environmentally friendly and efficient pest control solutions to safeguard their crops and ensure a more sustainable future for agriculture.

Key Market Challenges

Volatility in Price of Raw Materials

Price volatility of raw materials refers to the frequent and significant fluctuations in the prices of commodities used in the production process. These commodities are essential components that contribute to the manufacturing of various products across industries. The raw materials in the context of the pyrethroids market primarily comprise synthetic chemical compounds designed to replicate the insecticidal properties of natural pyrethrins.

The prices of these raw materials can be influenced by a multitude of factors, such as supply disruptions, changes in demand, or shifts in government policies. Any volatility in the price of these materials can significantly impact the overall cost of production, subsequently influencing the market dynamics. Fluctuations in raw material prices can lead to unpredictable and often increased production costs, which can subsequently affect the pricing of the final product.

Moreover, price volatility can also lead to uncertainty in the supply chain. This uncertainty can cause disruptions, affecting production and distribution processes. The impacts of these disruptions can cascade throughout the supply chain, potentially leading to delays or even shortages in the availability of essential products.

Therefore, understanding and effectively managing price volatility of raw materials is crucial for businesses to ensure stable production processes, maintain competitive pricing, and mitigate potential risks in the market.

Key Market Trends

Resurgence of Vector-Borne Diseases

Vector-borne diseases are a group of illnesses caused by pathogens and parasites that affect human populations. These diseases are transmitted to humans through vectors such as mosquitoes, ticks, and fleas. Some of the most common vector-borne diseases include malaria, dengue fever, Zika virus, and West Nile fever.

In recent years, there has been a significant resurgence of these diseases in various parts of the world, including both developing nations and the United States. This resurgence can be attributed to a combination of factors, including climate change, increased global travel, urbanization, and changes in land use. As these factors continue to evolve, the transmission of vector-borne diseases is expected to increase.

As the prevalence of vector-borne diseases rises, the demand for effective insecticides

like pyrethroids is also expected to grow. Pyrethroids are widely used in public health applications to control disease-carrying vectors. These insecticides have proven to be effective in mitigating the impact of vector-borne diseases.

One country where the re-emergence of vector-borne diseases has become a public health crisis is Venezuela. With the increasing number of cases, pyrethroids can play a crucial role in controlling the spread of these diseases and reducing their impact on the population.

Segmental Insights

Type Insights

Based on the category of type, the bifenthrin segment emerged as the dominant player in the global market for pyrethroids in 2023. The non-alpha cyano-pyrethroid insecticide bifenthrin, a widely used pesticide, is known for its effectiveness against various agricultural pests across the globe. With its low vapor pressure, limited water solubility, and remarkable stability in hydrolysis and photolysis, bifenthrin has gained recognition as a potential insecticide for mosquito netting.

In the United States, bifenthrin pyrethroids are not classified as restricted chemicals and are available for household use in low concentrations. Notably, bifenthrin finds extensive application in combating invasive red fire ants and proves effective against aphids, worms, ants, gnats, moths, beetles, termites, and numerous other insects. Its usage spans across orchards, nurseries, houses, and finds significant utilization in the agricultural sector, particularly on crops like corn. Additionally, bifenthrin safeguards woolen products in the textile industry by shielding them from insect attacks.

Crop Type Insights

The cereals & grains segment is projected to experience rapid growth during the forecast period. Cereals and grain production play a vital role in the global food chain, serving as a source of essential nutrients and energy for both direct human consumption and meat production. These crops form a significant part of the daily human diet and serve as a major feed for livestock, ensuring a steady supply of nourishment for all.

To safeguard the quality and integrity of cereal grains, they are often treated with degradable pesticides, including synthetic pyrethroids and insect growth regulators.

These treatments help prevent insect infestation during storage, ensuring that the grains remain safe for consumption and maintain their nutritional value.

Among the various pesticide options, pyrethroid insecticides have gained popularity due to their rapid knock-down effect, cost-effectiveness, and low environmental risk. They have been extensively utilized to manage aphids, pests that can cause significant damage to cereal crops. With their proven efficacy and advantageous properties, the demand for pyrethroids is anticipated to grow in the forecast period.

The continued focus on enhancing cereal production and preserving its quality through effective pest management strategies underscores the critical importance of these crops in ensuring food security and meeting the nutritional needs of a growing population.

Regional Insights

Asia Pacific emerged as the dominant player in the Global Pyrethroids Market in 2023, holding the largest market share in terms of value. The main consumers of pyrethroid insecticides, which are used in various formulations of insecticides, are primarily emerging economies such as China, India, Malaysia, Thailand, and Indonesia. These countries, particularly China and India, are experiencing rapid growth and an increase in population prosperity. As a result, there is a rising demand for hygiene products and pyrethroid insecticides. Taking advantage of the availability of cheap labor and land, as well as comparatively lenient standards and regulations regarding chemicals, major market players have established their manufacturing facilities for pyrethroid in Asia.

When it comes to global crop production, wheat and rice are considered to be the most crucial crops, accounting for over 50% of the world's cereal production. After a period of stagnation in 2019-20, the worldwide use of cereals is expected to see a 1.6 percent increase (equivalent to 43 million tons year on year), reaching an all-time peak of 2732 million tons in the 2020-21 period according to the Food and Agriculture Organization. These projections suggest that the demand for pyrethroid insecticides is likely to improve in the projected timeframe due to these factors and their associated properties.

Key Market Players

Bayer AG

Adama Agricultural Solutions Ltd

BASF SE

DuPont de Nemours Inc.

The Dow Chemical Company

FMC Corporation

Nufarm Ltd

Sumitomo Chemical Co.

UPL (United Phosphorus Limited)

Syngenta AG

Report Scope:

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

Global Pyrethroids Market, By Type:

Bifenthrin

Deltamethrin

Permethrin

Cypermethrin

Cyfluthrin

Lambda-Cyhalothrin

Others

Global Pyrethroids Market, By Crop Type:

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Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetables

Others

Global Pyrethroids Market, By Region:

North America

United States

Canada

Mexico

Europe

France

Germany

Italy

Spain

United Kingdom

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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

Available Customizations:

Global Pyrethroids Market report with the given market data, Tech Sci 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).

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