

Insecticides Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Pyrethroids, Organophosphates, Carbamates, Chlorinated Hydrocarbons, Botanical, Others), By Application (cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, Others), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/ICCCC925A6ADEN.html>

Date: February 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: ICCCC925A6ADEN

Abstracts

Global Insecticides Market was valued at USD 9.76 Billion in 2024 and is expected to reach USD 11.70 Billion by 2030 with a CAGR of 3.02% during the forecast period. The global insecticides market is a dynamic and essential component of the agrochemical industry, primarily aimed at controlling and mitigating the detrimental effects of insect pests on agricultural crops, public health, and ecosystems. With a constant battle against insect-borne diseases, crop losses, and food security concerns, the insecticides market plays a pivotal role in sustaining global agriculture and human well-being. Key drivers of the global insecticides market include the ever-increasing global population, which necessitates higher agricultural productivity, and the rising prevalence of insect-borne diseases like malaria, Zika virus, and Lyme disease, driving demand for effective insecticides in public health programs.

Additionally, the growing awareness about integrated pest management (IPM) practices that emphasize sustainable and environmentally friendly pest control solutions is influencing market trends. In terms of product types, the insecticides market offers a diverse range of chemical and biological insecticides. Chemical insecticides, such as organophosphates, pyrethroids, neonicotinoids, and others, dominate the market due to their efficacy and quick action. However, concerns regarding their environmental impact and effects on non-target organisms have led to increased scrutiny and regulations,

fostering the development and adoption of bio-based and organic insecticides. There has been a growing emphasis on sustainable and eco-friendly insecticide solutions, aligning with global efforts to reduce chemical residues in food and protect pollinators like bees. This has led to increased research and development activities, with the aim of creating innovative insecticides with minimal environmental impact.

Key Market Drivers

Population Growth and Food Security Concerns

Population growth and food security concerns are significant drivers behind the robust growth of the global insecticides market. As the world's population continues to expand at an unprecedented rate, there is a corresponding increase in the demand for food to meet the dietary needs of billions. However, this burgeoning population also places immense pressure on global agriculture, making it vulnerable to insect pests that can ravage crops and lead to substantial yield losses.

Insecticides play a pivotal role in addressing these challenges by providing a means to protect crops from destructive insect pests. Farmers rely on these chemical and biological agents to safeguard their harvests and ensure a stable and sufficient food supply. Without effective insecticides, the agricultural sector would face even greater difficulties in meeting the growing demand for food, exacerbating food security concerns and potentially leading to food shortages and price spikes.

Moreover, the consequences of insect damage extend beyond crop losses; they can disrupt supply chains, increase production costs, and impact the livelihoods of farmers. Insecticides, therefore, serve as a vital tool for ensuring the sustainability and resilience of global agriculture in the face of population growth and the accompanying pressure on food production. In October 2024, Insecticides India has introduced Torry Super, an advanced post-emergence herbicide designed to revolutionize weed control while ensuring crop safety. This new maize herbicide reflects IIL's commitment to innovation through extensive R&D efforts. By delivering cutting-edge technology, Torry Super aims to enhance productivity and support sustainable farming practices. The company is confident that this herbicide will significantly benefit maize farmers, helping them achieve higher yields.

While the use of insecticides is crucial for food security, it is essential to strike a balance between their application and environmental sustainability. As concerns about the environmental impact of chemical insecticides grow, there is a growing trend toward eco-

friendly and sustainable pest control solutions, including biological and organic insecticides. This shift reflects the need to protect not only crop yields but also the long-term health of ecosystems and the environment.

Key Market Challenges

Environmental Concerns and Regulations

The global insecticides market faces significant challenges, with environmental concerns and stringent regulations at the forefront. While insecticides are essential for protecting crops and ensuring food security, their use has come under scrutiny due to their environmental impact. This scrutiny has led to a series of regulations and concerns that are hindering the growth and sustainability of the global insecticides market.

One of the primary environmental concerns associated with insecticides is their potential to contaminate soil and water. When applied to fields, chemical insecticides can leach into the soil and find their way into groundwater, posing risks to ecosystems and potentially harming aquatic life. This contamination not only affects the environment but also threatens the availability of clean water resources.

Moreover, the impact of chemical insecticides on non-target organisms, particularly pollinators like bees, has raised alarm. The widespread decline in bee populations has been linked to the use of neonicotinoid insecticides, leading to calls for tighter restrictions. The loss of pollinators can have devastating consequences for agriculture, as many crops rely on these insects for pollination. In response to these environmental concerns, governments around the world have implemented more stringent regulations on the use of insecticides. These regulations often include restrictions on certain active ingredients, application methods, and buffer zones near sensitive areas like water bodies.

Key Market Trends

Sustainable Pest Management Practices

Sustainable pest management practices are playing a pivotal role in boosting the global insecticides market. As the world recognizes the pressing need for environmentally responsible and economically viable pest control solutions, these practices have gained prominence. Integrated Pest Management (IPM) stands at the forefront of this trend, emphasizing a holistic approach that combines various strategies to minimize the

environmental impact of pest control.

The products, derived from natural sources like beneficial insects, microbial agents, and plant extracts, align perfectly with sustainable farming approaches. They offer effective alternatives to chemical insecticides while minimizing harm to non-target organisms and ecosystems. As consumers increasingly seek pesticide-free and organic produce, the market for these eco-friendly insecticides continues to expand. In February 2021, Syngenta Crop Protection entered a strategic partnership with Insilico Medicine, an artificial intelligence (AI) firm. This collaboration aims to enhance innovation and accelerate the development of advanced crop protection solutions designed to safeguard crops from diseases and pests more effectively.

Key Market Players

Syngenta Crop Protection AG

AMVAC Chemical Corp.

UPL Ltd.

Bayer AG

BASF SE

FMC Corp.

Nufarm Ltd.

Bioworks, Inc.

Mitsui AgriScience International SA./N.V.

Drexel Chemical Company

Report Scope:

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

Insecticides Market, By Type:

Pyrethroids

Organophosphates

Carbamates

Chlorinated Hydrocarbons

Botanical

Others

Insecticides Market, By Application:

Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetables

Others

Insecticides Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

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

Insecticides Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Pyret...

Insecticides Market.

Available Customizations:

Global Insecticides 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).

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