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Biopesticides Market Research Report- Forecast till 2030

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Description:

Global Biopesticides Market Overview

Biopesticides Market Size was valued at USD 5.5 billion in 2022. The Biopesticides market industry is projected to grow from USD 6.2 Billion in 2023 to USD 13.2 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 13.3% during the forecast period (2023 - 2030). Growing investment from leading crop protection companies, rising environmental awareness, higher crop quality and yield with the use of biopesticides, increasing organic farming and demand for organic food, and rising government initiatives are the key market drivers boosting market growth.

Biopesticides Market

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Biopesticides Market Trends

- **Growing Awareness About Environmental Safety Fuels the Market Growth**

Growing pests and diseases without harming the environment is made possible by biopesticides, which give growers useful tools on both fronts. Both their active and inert components are generally regarded as safe. In addition to the microbial content, carrier media for biopesticide formulations include a variety of organic components, such as animal broth, organic ingredients, or organic waste products. The media is made of a biodegradable substance. Because they don't harm the environment, biopesticides contribute to the agroecosystem's stability and sustainability.

Pesticides have negative effects on the environment in addition to those on people. There have been numerous instances of harmful pesticides contaminating freshwater used for agriculture around the world, seriously harming the freshwater's flora and fauna. As a result, many environmental organisations have opposed pesticides, including the Environmental Protection Agency. In a recent study, for instance, scientists from the Public Health Institute, the California Department of Health Services, and the UC Berkeley School of Public Health discovered a six-fold increase in the risk factors for autism spectrum disorders (ASD) in children of mothers who had been exposed to organochlorine pesticides. The Biopesticides market revenue is growing as a result of all these factors.

Biopesticides are less harmful to the environment and human health because they contain natural organisms or products. In recent years, biopesticides have gained attention in pest management and have long been touted as potential substitutes for synthetic pesticides. Although the use of biopesticides is rising by almost 10% annually on a scale, if these pesticides are to significantly replace chemical pesticides and lessen the current overdependence on them, the market CAGR for market must expand further in the future.

Additionally, according to Surveys, organic farming is practised in 181 nations, and as of the end of 2017, 69.8 million hectares were managed organically, a 20 percent increase over 2016's 11.7 million hectares and the largest increase ever recorded. The report also discovered that sales of organic food and drink increased from USD 81.6 in 2015 to USD 97 billion in 2017. Therefore, the need for biological pesticides increases along with the demand for organic food and farming on a scale, driving the growth of the biopesticides market as a whole.

Biopesticides Market Segment Insights

Biopesticides Type Insights

The Biopesticides market segmentation, based on Type, includes Bioherbicide, Bioinsecticide, and BioFungicide. The Bioinsecticide segment held the majority share in 2022 in respect to the Biopesticides market revenue. Growing pest resistance and a rise in agricultural production have led to a greater use of bioinsecticides. There is agricultural loss because many insect pests are known to harm plant growth as well as crops after harvest or while they are in storage. Insect pest infestation also reduces the marketability of the crops. Regulatory restrictions and the phase-out of vital active ingredients are driving the need for alternative pest control methods. Bioinsecticides that do not harm bugs' natural enemies, pollute the environment, or leave residues in products now account for the majority of the market.

Biopesticides Form Insights

The Biopesticides market segmentation, based on Form, includes Liquid and Dry. The Liquid segment dominated the market in 2022. Liquid formulation offers better field performance than dry formulation with fewer chances of nozzle

blockage. The segment's easy applicability and consistent application may also support the segment share over the anticipated duration. The demand for liquid formulation is rising as a result of its advantageous properties, including a decreased risk of nozzle obstruction and the capacity to provide superior field performance. Microbial cultures are used to create liquid biopesticide formulations that have better stability, adhesion, and dispersal qualities. A liquid composition can contain any mixture of water, oil, polymer, or any two of these. This is likely to drive market growth over the course of the forecast period. **FIGURE 1: BIOPESTICIDES MARKET, BY FORM, 2022 & 2030 (USD BILLION)**

BIOPESTICIDES MARKET, BY FORM, 2022 & 2030 (USD BILLION)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Biopesticides Application Insights

The Biopesticides market data has been bifurcated by Application into Soil, Foliar, and Seeds. The soil application segment held largest market share in 2022, as it offers the most potential for long-term pest control. Soil-applied biopesticides can remain active in the soil for several weeks or months, providing continuous protection against soil-borne pests and diseases.

Biopesticides Crop Insights

The Biopesticides market data has been bifurcated by Crop into Grain And Cereal, Oilseeds, Fruits, and Vegetables. The vegetable segment held largest market share in 2022, as vegetables are some of the most intensively cultivated crops worldwide and are often more susceptible to pests and diseases than other crops. Biopesticides can provide effective and sustainable pest control solutions for vegetable growers, while also reducing the risk of residues in the final product.

Biopesticides Regional Insights

By Region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. The market is dominated by North America. The increased interest in environmentally friendly agricultural methods and the loss of many conventional products due to reregistration and/or performance issues are two factors that are driving the demand for biopesticides in North America. Today, more than 60 businesses in the United States alone are engaged in the development and/or marketing of biopesticide products. The demand for biopesticides has also increased as a result of product development. Given the rising domestic and international demand, the North American markets for bioinsecticides and bioherbicides are expected to expand at an astounding rate in the upcoming years.

In the present, there are more and better biological active ingredients and goods that can compete with and support traditional chemical pesticides. Over 420 biopesticides were registered in the US. 2019 saw the registration of nearly 13 active PIP ingredients for corn, 9 for cotton, and 5 for soybean. For the majority of the pests in North America, organisations like the Biological Products Industry Alliance (BPIA), the Environmental Protection Agency (EPA), and many others are developing biopesticides.

With its strong R&D, registration, and advancement of biopesticides as inherently risk-reduced pesticides, Canada is another potential market for them and their regulation. In Canada, there are currently more than 200 registered biopesticide products, with microbial being the most prevalent class. The majority of the North American biopesticides market is made up of biofungicides and bioinsecticides.

Further, the major countries studied in the market report are: The U.S, Canada, Germany, France, UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

FIGURE 2: BIOPESTICIDES MARKET SHARE BY REGION 2022 (%)

BIOPESTICIDES MARKET SHARE BY REGION 2022 (%)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe Biopesticides market accounts for the second-largest market share mainly due to the growing demand for food safety and quality, increasing consumer demand for organic products, thus encouraging organic farming practices, and rising government initiatives in promoting biocontrol products. Further, the Germany Biopesticides market held the largest market share, and the UK Biopesticides market was the fastest growing market in the European region.

The Asia-Pacific Biopesticides Market is expected to grow at the significant CAGR from 2022 to 2030 mainly attributed to the rising concerns over harmful chemicals on the environment, increasing demand for organic food, and the presence of a streamlined registration process. Moreover, China Biopesticides market held the largest market share, and the India Biopesticides market was the fastest growing market in the Asia-Pacific region.

Biopesticides Key Market Players & Competitive Insights

In order to achieve the necessary level of crop protection from pests and diseases without endangering the environment or human health, biopesticide products are crucial elements in contemporary integrated pest management concepts. The major market players are being drawn to diversify their product lines and distribution networks in order to expand their consumer bases and market share as a result of the rising demand for these goods. Among the top businesses in the market, Syngenta AG and Marrone Bio Innovations are two. The main market developments used by businesses to compete on the market are innovation and business expansion. Competitors in the Biopesticides industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

The Biopesticides market major player such as DuPont (U.S.), Bayer Crop Science AG (Germany), Monsanto Company (U.S.), BASF SE (Germany), Novozymes Biologicals (Denmark), Syngenta (Switzerland), Certis USA LLC (U.S.) are working to expand the market demand by investing in research and development activities.

Marrone Bio Innovations Inc. is a leading company in the biopesticides market that develops and markets eco-friendly pest management solutions for agricultural and water markets. The company's products are based on naturally occurring microorganisms and plant extracts, and are designed to improve crop yield, quality and resilience while reducing the use of synthetic chemicals. In June 2021, Marrone Bio Innovations collaborated with ATP Nutrition of Manitoba, Canada, to distribute Stargus Biofungicide on Canadian broadacre crops, primarily canola, dry beans, peas, soybeans, and sunflower.

Novozymes is a Danish biotechnology company that is a leading player in the biopesticides market. The company develops and markets a wide range of innovative biopesticide solutions that are used in agriculture, horticulture, and

other related industries. In April 2020, Syngenta AG and Novozyme announced the introduction of their distinctive biofungicide, TAEGRO, to the European and Latin American markets.

Key Companies in the Biopesticides market includes

- DuPont (U.S.)
- Bayer Crop Science AG (Germany)
- Monsanto Company (U.S.)
- BASF SE (Germany)
- Novozymes Biologicals (Denmark)
- Syngenta (Switzerland)
- Certis USA LLC (U.S.)
- Others

Biopesticides Industry Developments

June 2022: FMC Corporation announced its new plant health business brand, "Biologicals by FMC," as part of the company's plans to expand into the biopesticides market and to reflect the company's commitment to biological crop protection.

Jan 2022: Syngenta Crop Protection AG has acquired two next generation bioinsecticides from Bionema Limited, a biocontrol technology developer, NemaTrident and UniSpore. With this move, the company hopes to combat rising resistance and a diverse range of insects and pests in horticulture and ornamentals, turf amenity, and forestry, providing customers with even more options.

Biopesticides Market Segmentation

Biopesticides Type Outlook

- Bioherbicide
- Bioinsecticide
- Bio Fungicide

Biopesticides Form Outlook

- Liquid
- Dry

Biopesticides Application Outlook

- Soil
- Foliar
- Seed

Biopesticides Crop Outlook

- Grain And Cereal
- Oilseeds
- Fruits
- Vegetables

Biopesticides Regional Outlook

- **North America**
 - US

- Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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