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Global Botanical Pesticide Formulations Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Botanical Pesticide Formulations market size was valued at US$ 2428 million in 2025 and is forecast to a readjusted size of US$ 4167 million by 2032 with a CAGR of 8.0% during review period.

Botanical pesticide formulations are agricultural pest management products whose principal active ingredients are derived from plants, including azadirachtin, natural pyrethrins, matrine, osthole, physcion, essential oils, terpenes, standardized botanical extracts, and plant-derived proteins or peptides. These products are manufactured through extraction, purification, standardization, emulsification, suspension, microencapsulation, or solid-dispersion processes and are commercialized primarily as insecticides, fungicides, acaricides, nematicides, and a limited range of herbicides. Key upstream inputs include neem seeds, pyrethrum flowers, Sophora roots, tea tree oil, citrus peel, garlic, Reynoutria, Quillaja, sweet lupin, solvents, emulsifiers, surfactants, stabilizers, carriers, and packaging materials, while major downstream customers include crop protection formulators, agricultural distributors, large farms, orchards and plantations, greenhouse operators, organic farms, and crop protection service providers. Botanical pesticide formulations offer diversified modes of action, relatively low residue risk, improved environmental compatibility, and value in resistance-management programs, although their commercialization can be constrained by feedstock variability, limited photostability, shorter residual performance, and relatively high registration costs. On an ex-factory basis, the industry's typical gross margin is approximately 35%?55%; generic low-concentration neem, matrine, and essential-oil formulations generally operate at the lower end of the range, while proprietary products supported by standardized extraction, controlled-release technologies, intellectual property, and multi-country registrations typically achieve higher margins.

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The global botanical pesticide formulation market is gradually expanding from conventional low-concentration neem, natural pyrethrin, matrine, and essential-oil products toward higher-value formulations based on standardized botanical extracts, plant-derived proteins, and peptides. The industry remains relatively fragmented. Producers in India and China retain advantages in botanical feedstock access, extraction capacity, and cost-efficient generic formulation, while companies in Europe, North America, Japan, and Israel place greater emphasis on proprietary active ingredients, formulation technology, field-trial data, and international registrations. As major crop protection groups continue to expand their biological portfolios, licensing, regional distribution, and joint-registration partnerships between technology developers and multinational agricultural companies are becoming more common. Competition is therefore shifting from basic product supply toward integrated capabilities in active discovery, registration, formulation, and crop-specific solutions.

Demand growth is being supported by stricter residue requirements, increasing resistance to conventional pesticides, wider adoption of integrated pest management, and continued development of organic and low-residue agriculture. Fruits, vegetables, grapes, berries, tea, coffee, and protected horticultural crops remain the most commercially developed applications because growers in these segments are highly sensitive to pre-harvest intervals, maximum residue limits, and the safety of beneficial organisms. Botanical formulations are more likely to complement conventional pesticides through rotation, input reduction, and late-season treatment than to replace synthetic chemistry completely in the near term. Their adoption is expected to increase particularly in high-value crops and export-oriented agriculture, where traceability, residue compliance, and product quality directly influence market access and selling prices.

From a technology perspective, the industry is moving from crude extracts and conventional emulsifiable concentrates toward chemical fingerprinting, standardized extraction, plant tissue culture, microencapsulation, nano-dispersion, and controlled-release systems. Plant tissue culture can reduce dependence on seasonal and geographically concentrated feedstocks while improving consistency in active composition between production batches. Microencapsulation and advanced emulsion technologies can improve volatility, photostability, rainfastness, and residual performance, which remain major weaknesses of many essential-oil and terpene products. Product development is also extending beyond traditional insecticides into botanical fungicides, nematicides, seed treatments, and post-harvest applications. Future premium products will increasingly differentiate themselves through reliable field

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performance, lower effective application rates, tank-mix compatibility, and suitability for precision application systems.

The market continues to face constraints related to variations in botanical active content, unstable large-scale feedstock supply, limited formulation shelf life, weather-dependent field performance, and inconsistent registration requirements among countries. In some lower-end segments, inaccurate active-content claims, batch-to-batch variation, and intense price competition may weaken grower confidence in the broader product category. Future competition will increasingly focus on control of botanical resources, manufacturing standardization, ownership of regulatory data, and international distribution capabilities. Suppliers with proprietary active ingredients, stable supply chains, strong quality systems, and registrations across multiple regions are likely to strengthen their positions. Smaller regional formulators without sufficient research and regulatory resources may increasingly rely on contract manufacturing, local distribution, or partnerships with larger biological crop protection platforms, leading to gradual industry consolidation.

This report is a detailed and comprehensive analysis for global Botanical Pesticide Formulations market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Botanical Pesticide Formulations market size and forecasts, in consumption value ($ Million), 2021-2032

Global Botanical Pesticide Formulations market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Botanical Pesticide Formulations market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Botanical Pesticide Formulations market shares of main players, in revenue ($ Million), 2021-2026

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The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Botanical Pesticide Formulations

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Botanical Pesticide Formulations market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sumitomo Chemical, Certis Biologicals, ProFarm Group, Gowan Company, BioSafe Systems, Botanical Solution, Rovensa Group, Seipasa, Eden Research, CEV, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Botanical Pesticide Formulations market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Neem-derived Actives

Natural Pyrethrins

Plant Alkaloids

Other

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Market segment by Primary Function

- Insecticides
- Fungicides and Bactericides
- Other

Market segment by Formulation

- Emulsifiable Concentrates (EC)
- Soluble Concentrates (SL/AS)
- Suspension Concentrates (SC)
- Other

Market segment by Application

- Fruits and Vegetables
- Cereals and Grains
- Oilseeds and Pulses
- Other

Market segment by players, this report covers

- Sumitomo Chemical
- Certis Biologicals
- ProFarm Group

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Gowan Company

BioSafe Systems

Botanical Solution

Rovensa Group

Seipasa

Eden Research

CEV

Trifolio-M

STK Bio-Ag Technologies

Coromandel International

T. Stanes

Ozone Biotech

Fortune Biotech

PJ Margo

Chengdu Newsun Crop Science

Chengdu Green Gold Hi-Tech

Beijing Kingbo Biotech

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Botanical Pesticide Formulations product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Botanical Pesticide Formulations, with revenue, gross margin, and global market share of Botanical Pesticide Formulations from 2021 to 2026.

Chapter 3, the Botanical Pesticide Formulations competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Botanical Pesticide Formulations market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Botanical Pesticide Formulations.

Chapter 13, to describe Botanical Pesticide Formulations research findings and conclusion.

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Contents

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2 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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Figure 85. Research Process and Data Source

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