

Indonesia Insecticide - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Indonesia Insecticide Market size is estimated at 116.21 million USD in 2024, and is expected to reach 138.66 million USD by 2029, growing at a CAGR of 3.60% during the forecast period (2024-2029).

Targeted pest controlling and reduction in application rates reduce the production cost, which will drive the foliar application mode of the insecticide market

The foliar mode of insecticide application has gained popularity due to its effectiveness in controlling target pests and lower dosage rates. The foliar method of insecticide application accounted for the highest share of 58.1% in 2022, with a market value of USD 63.5 million in the same year.

The widespread adoption of the foliar application method of insecticides stems from its ability to safeguard food crops, notably rice, which serves as a staple for most Indonesians, by effectively combating the menace of pests.

Insecticide seed treatment is gaining importance in Indonesia as it can manage pests in seeds and young seedlings, protecting seed and soil-borne insect pests. Treating seeds with insecticides effectively prevents or reduces the harmful impacts caused by these organisms in the initial stage of crop growth, resulting in enhanced crop establishment and overall health. As of 2022, this method accounted for 16.7% of the market value, approximately USD 18.2 million.

Severe yield losses of up to 30% of oil palm crops in Indonesia are attributed to stem weevils and white grubs. These insect pests can be controlled by performing soil treatment using insecticides like imidacloprid, thiamethoxam, carbaryl, and bifenthrin. Thus, the soil treatment application mode is expected to register a CAGR of 3.4% during the forecast period.

The fumigation segment experienced impressive growth and reached a value of USD 9.2 million in 2022, primarily driven by farmers' growing acceptance of fumigation practices. This surge in popularity can be credited to the effectiveness of fumigation methods, which effectively protect agricultural products from pest-related damages, ultimately elevating their quality and market value.

Indonesia Insecticide Market Trends

Growing crop losses by insect pests, rise in the adoption of pesticides, and advancements in insecticide products may drive the market

Insecticides are primarily used to control and manage pests that attack agricultural crops. Pests such as insects, mites, and other arthropods can cause significant damage to crops, leading to yield losses and reduced quality. Insecticides help mitigate these pest pressures, protecting crops and ensuring sufficient food production. The level of insecticide use in Indonesia has increased over the last few decades. The consumption of insecticides in Indonesia per hectare increased by 25.2% from 2017 to 2022.

Insects also act as vectors for plant diseases, transferring diseases that can harm crops. They damage plants directly by feeding and indirectly by delivering pathogens to wounded places of plants, from where pathogens spread throughout the plant. Insecticides are used to control insect vectors and minimize disease transmission, hence protecting crop health and reducing production losses.

Until February 2021, there were 1,059 insecticide brands registered in Indonesia consisting of 80 different active ingredients for 67 crops/targets. More than 90% of the active ingredients registered in Indonesia consisted of a combination of pyrethroids, organophosphates, avermectins and milbemycins, neonicotinoids, carbamates, nereistoxin analogs, and phenylpyrazoles (fiproles). Having a diverse range of insecticide brands and active ingredients indicates that farmers have a wide variety of options for addressing insect management needs in various crops and agricultural

systems. The wide range of registered insecticides reflects the importance of pest control in Indonesian agriculture and the efforts to provide farmers with effective tools to protect their crops.

Active ingredient prices in the country are dependent on currency exchange rates, import tariffs, and duties because most of the active ingredients are imported from other countries

Indonesia is a prominent agricultural nation globally. However, it faces a shortage of basic agricultural inputs, notably in its indigenous pesticide industry. The country relies heavily on importing insecticides. Most of the insecticides and active ingredients are imported from China. Consequently, their prices are dependent on currency exchange rates, import tariffs, and duties.

In 2022, cypermethrin was valued at USD 20.6 thousand per metric ton. It has been widely adopted in the agricultural industry for its effectiveness in controlling various types of insects, including spotted ball worms, pink ball worms, early spot borers, and hairy caterpillars. Its effectiveness has made it a popular choice for farmers seeking to protect their crops from pests and ensure a successful harvest.

Imidacloprid is a powerful neonicotinoid insecticide with effective systemic and residual properties. It can control a wide range of insects, including sucking insects, beetles, flies, leaf miners, and termites. It is suitable for crops and has low application rates, hence widely popular among farmers. The price of this active ingredient increased by 77.9% to USD 17.0 thousand per metric ton from 2017 to 2022.

Malathion belongs to the organophosphate family. It is often utilized to manage various insect infestations that target plants, fruits, vegetables, landscaping, and shrubs. Malathion-based products come in various forms, such as liquids, dust, wettable powders, or emulsions. In Indonesia, there are a variety of products available that contain malathion.

Active ingredient prices can influence the competitive landscape of the insecticide market. Companies that can source active ingredients at more competitive prices may have a competitive advantage over others.

Indonesia Insecticide Industry Overview

The Indonesia Insecticide Market is fairly consolidated, with the top five companies occupying 66.33%. The major players in this market are ADAMA Agricultural Solutions Ltd, Bayer AG, FMC Corporation, Syngenta Group and UPL Limited (sorted alphabetically).

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