Molluscicides Market Assessment, By Type [Chemical, Biological], By Form [Pellets, Liquid], By Application [Agricultural, Non-Agricultural], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global molluscicides market is projected to witness a CAGR of 7.99% during the forecast period 2025-2032, growing from USD 830.92 million in 2024 to USD 1537.35 million in 2032. The market is growing at a considerable rate due to increasing agricultural needs and the need for efficient pest control measures. Such growth is notable in the Asia-Pacific, which continues to dominate in market share due to its wide range of agriculture and increasing knowledge of farmers on the use of molluscicides in pests. Molluscicides are critical in the control of snails, slugs, and other mollusks, and they can be very destructive to many crops, especially fruits, vegetables, and grains. The application of these substances in fighting infestations prevents yield loss which, in turn, improves agricultural output. There are more farmers who believe that the use of molluscicides helps in the protection of their crops and in ensuring the availability of better-quality food.

With the growing awareness about the environment, however, it is noticeable that an increasing number of people are inclined to the practices of agriculture where toxic substances are not used for agricultural production. As a result, novel and better molluscicides that are effective besides having little or no negative impact on the environment are in the process of being approved as a result of the ongoing investments in research and development. These developments are likely to enhance the growth of the market as they support the growing demands for compliance and implementation of eco-friendly practices in agriculture. Overall, the molluscicides market is likely to witness positive growth owing to the changing trends of modern farming practices and the demand for sustainable food sources among consumers.

In February 2024, ADAMA Agricultural Solutions Limited made an entry into the European market for molluscicides with its licensed novel active ingredient, Feralla. Feralla-based molluscicide products are characterized by an enhanced, fast, rapid-stop feeding effect and prolonged effectiveness of the pellets compared to the existing Ferric-Phosphate products in the industry. Field tests using Feralla showed a much faster death of the mollusk in the first three days following treatment, thus greatly reducing the amount of feeding damage for such periods.

Rising Health Concerns Catalyze Market Expansion

An increasing concern over health issues is responsible for the rise in the demand for molluscicides. Various diseases spread through snails and slugs include schistosomiasis and fascioliasis, both of which pose a threat to human beings and livestock. The pests also damage crops and, therefore, threaten food security. Hence, pest control measures become inevitable.

As a result, individuals and the agricultural sector are now turning toward molluscicides to solve such problems but have been mostly advocating for eco-friendly and biodegradable formulations based on environmental concerns. Moreover, severe regulations meant to protect public health lead to innovations in the global molluscicide market in the form of product formulations. The innovation trend spurs development in the market, especially in areas that have considerable agricultural activity matched with high instances of diseases transmissible by mollusks.

In July 2023, Zimbabwe collaborated with China in an attempt to eliminate the disease bilharzia (Schistosomiasis), an infection caused by the mollusk, snail. In order to achieve this objective, the National Institute of Health Research (NIHR) is being aided by the National Institute of Parasitic Diseases in China in a number of domains aimed at eliminating the disease. The partnership is leading to manufacturing Chinese molluscicides formulated to control schistosomiasis-transmitting snails at strategic water contact locations.

Government Efforts Influence the Market Growth

Government initiatives actively shape the growth of the molluscicides market via regulations, subsidies, and awareness campaigns. Moreover, regulatory frameworks that define green and safe formulations so as to minimize environmental and health risks and drive innovation, impact the growth of global molluscicides market.

The rise of public health campaigns targeting mollusk-borne diseases has also increased adoption of molluscicides among endemic areas. Integrated programs for pest management, adopted by governments with international agencies, guarantee the effective and sustainable use of such practices. Awareness programs on health and economic losses due to pests further enhance demand and build a supporting environment for the uptake in markets. Such collaborative initiatives depict the crucial role of government intervention globally in the development of the market for molluscicides.

In June 2023, giant African land snails, that consume at least 500 different types of plants, were found in Florida. The state initiated intensive efforts to destroy the invasive mollusks to safeguard agriculture and the environment from destruction. The U.S. Department of Agriculture issued warnings for taking precautions to prevent rat lungworm in humans due to these snails.

Biological Molluscicides to Gain Momentum

Biological molluscicides are emerging as a sustainable option in the global molluscicides market because of growing environmental concerns and the need for eco-friendly pest control practices among consumers. Derived from sources like natural plant extracts, bacteria, or other biological agents, these new molluscicides control pests such as slugs and snails without affecting non-target organisms, soil, or water systems. Therefore, they are considered an effective biological pest-control method for organic farming and integrated pest-management practices.

Notably, this change is strongly accompanied by imminent regulations on chemical molluscicides because of their residual toxicity and possible ecological harm. Furthermore, governments across the globe encourage biological alternatives by funding research studies and conducting awareness campaigns, thereby nurturing innovation and market acceptance. Moreover, organic food consumption and sustainable agricultural practices have further boosted the demand for this product. At present, biological molluscicides enjoy a relatively small share of the market. However, innovation in formulation efficiency and cost reduction will drive their adoption and position it as one of the key growth segments in the molluscicides market.

In August 2023, the Kenya Ministry of Agriculture introduced a pilot control operation of invasive apple snails in the Mwea rice scheme in Kirinyaga County. The Ministry secured 20,000 liters of bio-grade molluscicides to prevent the migratory pest from spreading to rice-growing areas.

Asia-Pacific Dominates the Market

As with diverse agricultural activities and increased incidence of mollusk-borne diseases, Asia-Pacific continues to dominate the global market for molluscicides. With most countries like China, India, and other countries that are heavily dependent on agriculture for their economy, pest control is key in ensuring adequate outputs of agricultural commodities. Proliferation of snails and slugs in conditions of warm and humid climates subsequently increases the demand for molluscicides. In addition, educating the masses on the health risks associated with these pests has triggered government initiatives and funding for pest management

solutions.
Supportive initiatives covering educational programs, subsidies, and research funding enhance market growth. For instance, in August 2024, a national research program worth USD 4.6 million was launched to equip Australian grain growers with novel instruments and management techniques against snails to mitigate losses and create more marketing options for the affected crops. The University of Adelaide collaborated with South Australian Research and Development Institute (SARDI), University of South Australia (UniSA), Western Australian Department of Primary Industries and Regional Development (DPIRD) and Commonwealth Scientific and Industrial Research Organisation (CSIRO) for this four-year project funded by Grains Research and Development Corporation (GRDC), Australia.
Moreover, fast-paced urbanization and development in both horticulture and floriculture sectors go towards accelerating the rise of molluscicides in non-agricultural applications. While the chemical formulation still stands high, the increasing popularity of biological molluscicides can also be observed as a result of strict environmental regulations and an excessive demand from consumers for eco-friendly products.
Future Market Scenario (2025 – 2032F)
- The demand for biological molluscicides is expected to grow in the coming years due to increasing demand for environmentally friendly and sustainable pest control methods.
- Innovations in formulations encompassing slow-release and targeted delivery systems are capable of enhancing the effectiveness of molluscicides in the market.
- The preference for integrated pest control methods will lead to more incorporation of molluscicides into IPM strategies.

Key Players Landscape and Outlook
The major companies in the global molluscicides market emphasize innovation, sustenance, and extending geographical reach. Moreover, the market is filled with several significant companies with a focus on developing eco-friendly and bio-derived solutions. Policies for making more eco-sustainable molluscicides, social concerns, and regulations regarding chemical formulations are compelling companies to invest in their R&D budgets to develop better, biodegradable forms of molluscicides that fit general sustainability concepts in the world.
Strategic alliances, mergers, and acquisitions characterize the market players as they seek to consolidate and penetrate emerging economies, especially in Asia-Pacific, which are critical markets with pertinent pest concerns. Pest control becomes more effective and farmer-friendly with products that are associated with digital platforms and precision farming technologies.
The market's prospects remain rather bright owing to the increased interest in food security, organic farming, and other health-related public initiatives. It is expected that the major players would strengthen themselves in product diversification and regional expansion using innovative means to meet emerging consumer and regulatory demands across the globe.

Table of Contents:

6.2.2.1.Pellets
6.2.2.2.Liquid
6.2.3.By Application
6.2.3.1.Agricultural
6.2.3.1.1.Cereals and Grains
6.2.3.1.2.Fruits and Vegetables
6.2.3.1.3.Pulses and Oilseeds
6.2.3.1.4.Others
6.2.3.2.Non-Agricultural
6.2.3.2.1.Residential
6.2.3.2.2.Commercial
6.2.4.By Country Share
6.2.4.1.United States
6.2.4.2.Canada
6.2.4.3.Mexico
6.3.Country Market Assessment
6.3.1.United States Molluscicides Market Outlook, 2018-2032F*
6.3.1.1.Market Size Analysis & Forecast
6.3.1.1.1.By Value
6.3.1.1.2.By Volume
6.3.1.2.Market Share Analysis & Forecast
6.3.1.2.1.By Category
6.3.1.2.1.1.Chemical
6.3.1.2.1.2.Biological
6.3.1.2.2.By Form
6.3.1.2.2.1.Pellets
6.3.1.2.2.2.Liquid
6.3.1.2.3.By Application
6.3.1.2.3.1.Agricultural
6.3.1.2.3.1.1.Cereals and Grains
6.3.1.2.3.1.2.Fruits and Vegetables
6.3.1.2.3.1.3.Pulses and Oilseeds
6.3.1.2.3.1.4.Others
6.3.1.2.3.2.Non-Agricultural
6.3.1.2.3.2.1.Residential
6.3.1.2.3.2.2.Commercial
6.3.2.Canada
6.3.3.Mexico
*All segments will be provided for all regions and countries covered
7.Europe Molluscicides Market Outlook, 2018-2032F
7.1.Germany
7.2.France
7.3.Italy
7.4.United Kingdom
7.5.Russia
7.6.Netherlands
7.7.Spain

*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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