

Soil Active Herbicides Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Mobility Type (Contact, Systemic), By Mode of Action (Selective Herbicides, Non-Selective Herbicides), By Product Type (Synthetic Herbicides, Bio-herbicides), By Application (Pre-Plant, Pre-Emergence, Post-Emergence), By End Use (Farming Lawns, Gardening & Landscaping), By Region & Competition, 2020-2030F

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Abstracts

Global Soil Active Herbicides Market was valued at USD 9.30 billion in 2024 and is expected to reach USD 12.56 billion by 2030 with a CAGR of 5.14% during the forecast period. Soil-active herbicides refer to herbicides that exert their effects on plant roots, seeds, and shoots. These herbicides are mixed into the soil, playing a crucial role in managing the proliferation of undesired plants and weeds. They remain effective within the soil for a designated duration and are utilized by farmers both prior to and following crop planting.

Key Market Drivers

Increasing Global Population and Food Demand

As the world's population continues to expand, the demand for food production has reached unprecedented levels. With the need to feed billions, the agricultural sector faces the formidable challenge of enhancing productivity while ensuring sustainable practices. The world's population is on a trajectory of continuous growth, placing

immense pressure on global agriculture to produce more food. This surge in population directly translates to increased demand for crops, necessitating enhanced agricultural efficiency. Soil active herbicides, designed to optimize crop yields by curbing weed competition, have become indispensable tools in meeting the escalating food demand.

The rising global population underscores the urgency of ensuring food security. Agriculture must produce more with the available arable land. Soil active herbicides play a crucial role in maximizing crop yields by mitigating the adverse effects of weeds on plant growth. As an integral component of modern weed management, these herbicides contribute to the global effort to achieve sustainable food production. Traditional weed management methods are often labor-intensive and time-consuming. In the face of burgeoning food demand, farmers seek more efficient solutions. Soil active herbicides provide a time-saving and effective means of weed control, allowing farmers to allocate resources more strategically and focus on other aspects of crop management, leading to increased overall productivity. For example, the United Nations (UN) projects that the global population will reach 8.5 billion by 2030 and 9.7 billion by 2050. As the population grows and dietary preferences shift towards plant-based foods, the demand for soil-active herbicides is expected to rise.

The need to produce more food has driven a shift towards intensive agricultural practices. Large-scale farming operations, designed to meet the demands of a growing population, benefit from the targeted and long-lasting effects of soil active herbicides. These herbicides contribute to the optimization of land use and facilitate the management of extensive crop areas efficiently. According to the recently published research article, the total global food demand is expected to increase by 35% to 56% between 2010 and 2050, while population at risk of hunger is expected to change by 91% to +8% over the same period.

Advancements in Agriculture Technology

In the dynamic realm of agriculture, technology stands as a driving force, transforming traditional practices and ushering in a new era of efficiency and sustainability. As advancements in agriculture technology continue to unfold, a notable beneficiary emerges in the form of the Global Soil Active Herbicides Market. A cornerstone of agricultural technological progress is precision farming. This approach involves the use of advanced technologies such as GPS, sensors, and data analytics to optimize various aspects of crop management. In the context of soil active herbicides, precision farming enables targeted application, ensuring that herbicides are deployed precisely where

needed. This precision minimizes wastage, reduces environmental impact, and enhances the overall effectiveness of soil active herbicides.

The synergy between agriculture technology and the development of herbicide formulations has yielded innovative products with heightened efficacy. Through extensive research and technological integration, new formulations of soil active herbicides are designed to provide longer-lasting effects, increased selectivity, and improved performance in diverse soil conditions. These advancements contribute significantly to the market's growth by offering farmers more potent tools for weed management. Digital monitoring and decision support systems empower farmers with real-time data on crop health, soil conditions, and weed prevalence. Integrated with soil active herbicides, these systems assist farmers in making informed decisions regarding the timing and dosage of herbicide applications. The ability to respond promptly to dynamic agricultural conditions enhances the efficiency of weed control and optimizes the use of soil active herbicides.

Agriculture technology has witnessed a surge in automation and mechanization, simplifying labor-intensive tasks. The integration of automated machinery for herbicide application ensures consistent coverage and distribution, reducing the reliance on manual labor. This not only enhances the precision of soil active herbicide application but also makes it more accessible to farmers on varying scales, contributing to the market's widespread adoption.

Environmental Concerns and Sustainable Agriculture

In the quest for a sustainable future, agriculture emerges as a critical frontier where environmental concerns and innovation converge. The Global Soil Active Herbicides Market, tasked with providing effective weed management solutions, finds itself at the forefront of this symbiotic relationship. Traditional weed control methods, such as extensive tillage or the use of non-selective herbicides, can leave a significant ecological footprint. In contrast, soil active herbicides, when used responsibly, contribute to sustainable agriculture by minimizing soil disturbance and reducing the need for repeated applications. This eco-friendly approach resonates with environmentally conscious farmers, fostering the adoption of soil active herbicides.

Environmental concerns have spurred a shift towards conservation tillage practices, aimed at preserving soil structure and minimizing erosion. Soil active herbicides play a pivotal role in this paradigm by enabling weed control without the need for extensive tillage. As farmers increasingly embrace conservation tillage, the demand for soil active

herbicides is set to rise, driving the market's growth. Conventional herbicides, when applied excessively or inappropriately, can contribute to water contamination and runoff, posing threats to aquatic ecosystems. Soil active herbicides, with their targeted and soil-incorporated nature, minimize these risks. The compatibility of soil active herbicides with sustainable agriculture practices aligns with the growing concern for water quality, driving their adoption among environmentally conscious farmers.

Sustainable agriculture emphasizes the importance of preserving biodiversity. Traditional weed management practices can inadvertently harm non-target plant species. Soil active herbicides, designed for specificity and selectivity, allow for weed control without causing widespread harm to surrounding flora. This characteristic aligns with sustainable agriculture goals, attracting farmers who prioritize biodiversity conservation.

Rising Need for Cost-Effective Weed Management

In the ever-evolving landscape of agriculture, the imperative to optimize resource utilization and cut costs is steering farmers and cultivators towards innovative solutions. One such solution that has gained prominence is the use of soil active herbicides. Traditional weed management methods often involve significant labor costs and time investments. As the global agricultural community grapples with the need to produce more with fewer resources, the economic efficiency offered by soil active herbicides becomes a compelling factor. These herbicides provide a cost-effective solution by reducing the need for manual labor in weed control, allowing farmers to allocate resources more strategically.

Weeds compete with crops for nutrients, water, and sunlight, potentially leading to substantial yield losses. Soil active herbicides, by effectively suppressing weed growth, contribute to minimizing these losses. The economic impact of preserving crop yields is substantial, and as the demand for higher productivity increases, farmers are turning to soil active herbicides as a viable investment to safeguard their harvests. Traditional weed control methods often involve extensive tillage, which can incur significant fuel and labor costs. Soil active herbicides, designed to work within the soil, enable farmers to reduce dependency on tillage without compromising on weed management. This reduction in tillage-related costs is a key driver for the adoption of soil active herbicides among those seeking cost-effective and sustainable weed control solutions.

The rising need for cost-effective weed management extends across agricultural operations of all scales. Soil active herbicides offer operational scalability, making them

suitable for both small-scale and large-scale farming. This versatility in application aligns with the diverse needs of farmers, further fueling the market's growth as it becomes an accessible and cost-efficient solution for a broad spectrum of agricultural practices.

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Key Market Challenges

Environmental Concerns and Regulatory Scrutiny

Perhaps the most pressing challenge confronting the soil active herbicides market is the increasing scrutiny of environmental impacts. Regulatory bodies worldwide are placing a heightened focus on the ecological consequences of herbicide use, and soil active herbicides are no exception. Stricter regulations and evolving environmental consciousness demand a delicate balance between effective weed management and environmental stewardship.

Resistance Management in Weeds

The prolonged use of herbicides, including soil active varieties, has led to the emergence of herbicide-resistant weed species. This resistance poses a significant challenge for the soil active herbicides market, necessitating ongoing research and development to stay ahead of evolving weed populations. Developing new formulations and strategies to manage resistance is crucial for the sustained effectiveness of soil active herbicides.

Public Perception and Consumer Awareness

Public perception of herbicide use in agriculture, including soil active herbicides, is influenced by concerns about food safety and environmental impact. Increasing consumer awareness regarding agricultural practices has led to a demand for transparency and sustainable farming. The soil active herbicides market faces the challenge of aligning its narrative with these concerns, emphasizing responsible use and the benefits of these herbicides in sustainable weed management.

Key Market Trends

Integration of Precision Agriculture Technologies

Precision agriculture is gaining momentum as farmers leverage technologies like GPS, sensors, and data analytics for precise and data-driven decision-making. The integration of precision agriculture technologies into the use of soil active herbicides allows for more targeted and efficient weed management. Farmers can optimize herbicide applications based on real-time data, reducing waste and improving overall effectiveness.

Development of Sustainable Formulations

With an increasing emphasis on sustainable agriculture, there is a growing demand for herbicide formulations that minimize environmental impact. The soil active herbicides market is responding by developing formulations with enhanced biodegradability, reduced toxicity, and lower ecological footprints. Sustainable formulations align with both regulatory requirements and the preferences of environmentally conscious farmers.

Biological Soil Active Herbicides

The rise of biologicals in agriculture is extending to the realm of weed management. Biological soil active herbicides, derived from microorganisms or natural compounds, are gaining traction as viable alternatives. These herbicides offer an eco-friendlier approach to weed control, appealing to farmers seeking sustainable solutions that align with organic farming practices.

Segmental Insights

Product Type Insights

Based on the product type, Synthetic herbicides poised to dominate the global soil active herbicides market as the preferred product type, and several factors contribute to this anticipated dominance. First and foremost, synthetic herbicides are known for their versatility and efficacy in targeting a wide spectrum of weeds, offering a comprehensive solution to farmers grappling with diverse weed populations. The ability of synthetic herbicides to provide long-lasting weed control and minimize the need for repeated applications enhances their attractiveness to farmers seeking cost-effective and time-efficient solutions. Moreover, the continuous advancements in herbicide technology have led to the development of highly selective synthetic herbicides, allowing for targeted weed management without adversely affecting non-target crops. As the

demand for increased agricultural productivity and sustainability rises, synthetic herbicides, with their proven track record and ongoing innovations, are poised to maintain their dominant position in the global soil active herbicides market.

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Regional Insights

North America was positioned to dominate the global soil active herbicides market due to a convergence of factors that establish the region as a key player in the industry. The agricultural landscape in North America is characterized by large-scale commercial farming operations that rely heavily on efficient and technologically advanced weed management solutions. The region's robust infrastructure, extensive research and development capabilities, and widespread adoption of precision farming practices contribute to the dominance of soil active herbicides. Additionally, stringent regulatory frameworks and a high level of awareness regarding sustainable agriculture practices in North America drive the demand for herbicides that offer effective weed control while minimizing environmental impact. The presence of major agricultural input suppliers and a well-established distribution network further solidify North America's leading position in the global soil active herbicides market. As the region continues to prioritize productivity and sustainability in agriculture, its dominance in the soil active herbicides market is expected to persist.

Moreover, soil-active herbicides help control weed growth, enabling crops to thrive and produce higher yields. They also play a key role in preventing the spread of diseases and pests that can harm crops, further boosting production. For example, in February 2023, Statistics Canada, a government agency responsible for producing statistics, reported a 13.1% increase in farm-gate sales of fruits and vegetables, reaching \$3 billion from 2021 to 2022. Sales of fruits and vegetables rose by 15.3% and 11.2%, respectively, with all major commodities showing growth. Additionally, the country's overall fruit and vegetable production grew by 6.1%, reaching 3.5 billion kg in 2022. As a result, the rising demand for fruit and vegetable production is fueling the growth of the soil-active herbicide market.

Recent Developments

In January 2025, FMC has introduced two new herbicides, Keenali Complete and Keenali GR herbicide powered by Dodylex active, pending EPA decision. They are scheduled to launch for rice growers in 2027 and 2028, respectively.

In March 2024, Atul Ltd. is set to introduce a new post-emergence herbicide specifically designed for sugarcane crops. This herbicide aims to provide sugarcane farmers with an effective solution for managing weeds during the growing season, ensuring improved crop yields and better quality production. The launch is expected to meet the growing demand for sustainable crop protection in the sugarcane industry, particularly in regions facing significant weed pressure.

In 2023, Corteva Agriscience revealed its plans to launch the Enversa herbicide, a versatile new solution designed to manage a broad spectrum of weeds. The herbicide received registration from the U.S. Environmental Protection Agency (EPA), marking a significant milestone for the company. Enversa is formulated to offer growers a more flexible, effective, and environmentally responsible tool for weed control, which is crucial for maintaining high crop productivity and minimizing environmental impact.

In 2023, BASF expanded its herbicide portfolio with the introduction of two new products: Facet and Duvelon. These innovative herbicides are tailored to support rice and tea growers in combating persistent weed issues. With their unique formulations, Facet and Duvelon help address specific challenges faced by farmers in these crops, particularly in regions where weeds are increasingly resistant to traditional herbicides. The launch of these products strengthens BASF's commitment to providing sustainable, advanced solutions that enhance crop protection while supporting growers in maintaining optimal yields and quality.

In January 2019, Sungbo Chemical and NongHyup in South Korea assumed the manufacturing and marketing responsibilities for Basta Herbicide, formerly provided by BASF, under a newly established distribution and licensing agreement. The agreement mandated both companies to maintain the original high-quality formulation of the herbicide.

In June 2018, BASF initiated a global registration effort for Luximo herbicides in the European Union and Australia, along with Tirexor herbicide in Australia. This strategic move aimed to broaden the organization's herbicide portfolio and enhance its presence in key markets.

Key Market Players

Bayer AG

BASF SE

Syngenta AG

DuPont de Nemours, Inc.

ADAMA Ltd.

Arysta LifeScience Corp

Nufarm Limited

Nissan Chemical Corp

Shandong Binnong Technology Co Ltd

FMC Corporation

By Mobility Type By Mode of Action By Product Type By Application By End Use By Region

Contact

Systemic %li%Selective Herbicides

Non-Selective Herbicides %li%Synthetic Herbicides

Bio-herbicides %li%Pre-Plant

Pre-Emergence

Post-Emergence %li%Farming Lawns

Gardening & Landscaping %li%North America

Europe

Asia-Pacific

South America

Middle East & Africa

Report Scope:

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

Soil Active Herbicides Market, By Mobility Type:

Contact

Systemic

Soil Active Herbicides Market, By Mode of Action:

Selective Herbicides

Non-Selective Herbicides

Soil Active Herbicides Market, By Product Type:

Synthetic Herbicides

Bio-herbicides

Soil Active Herbicides Market, By Application:

Pre-Plant

Pre-Emergence

Post-Emergence

Soil Active Herbicides Market, By End Use:

Farming Lawns

Gardening & Landscaping

Soil Active Herbicides Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

India

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Soil Active Herbicides Market.

Available Customizations:

Global Soil Active Herbicides 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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