

# **Aquatic Herbicides Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Glyphosate, 2,4-D, Imazapyr, Triclopyr, and Others), By Mode of Application (Foliar, and Submerged), By Mode of Action (Selective, and non-Selective), By Application (Agricultural Waters, Fisheries, Recreational Waters, and Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Aquatic Herbicides Market is projected to expand significantly, rising from USD 769.98 Million in 2025 to USD 1129.22 Million by 2031, demonstrating a Compound Annual Growth Rate (CAGR) of 6.59%. These specialized chemical formulations are designed to control or eliminate excessive aquatic vegetation, including submerged, floating, and emergent weeds, in various water bodies such as lakes, reservoirs, and irrigation channels. This market expansion is primarily fueled by the increasing biological threat posed by invasive plant species, which disrupt ecosystem balance and impede crucial water infrastructure vital for transport and agriculture. For instance, in 2025, the Aquatic Plant Management Society reported that invasive species like hydrilla and Eurasian watermilfoil were on track to spread across an additional 5 to 7 million acres in the United States, underscoring the critical need for effective management interventions. However, a significant obstacle for the industry is the rigorous regulatory frameworks governing chemical applications in aquatic environments. Environmental agencies worldwide impose strict safety standards to protect non-target organisms and preserve drinking water quality, leading to lengthy and costly approval processes. These prolonged procedures can significantly delay product commercialization and restrict market access for innovative herbicide formulations.

## Market Driver

Supportive government initiatives for invasive species management are a key driver for the aquatic herbicides market, as public agencies globally increasingly fund and mandate the control of non-native vegetation to conserve water resources. Governments are establishing robust funding mechanisms to combat biological threats that hinder navigation and degrade water quality, directly translating into consistent procurement orders for aquatic herbicides and providing essential capital for large-scale application projects in public water bodies. For example, the Florida Fish and Wildlife Conservation Commission allocated approximately \$10.9 million specifically for aquatic plant management in public waters during the 2023-2024 fiscal year, as detailed in the Florida Department of Environmental Protection's October 2024 'State of Florida Land Management Uniform Accounting Council 2024 Annual Report'. Technological advancements in herbicide formulations and precision application methods are simultaneously accelerating market growth by enhancing treatment efficacy and environmental safety. Innovations in chemical engineering and digital diagnostics, such as satellite-guided application, enable precise targeting of invasive weeds, thereby minimizing product volumes and reducing impact on non-target species. This improved precision encourages the adoption of chemical controls in sensitive ecosystems where traditional methods were previously deemed too risky. SePRO Corporation's July 2025 'Sustainability Report' highlighted its restoration of approximately 1.4 million acres of aquatic and terrestrial environments in 2024 using advanced solutions. This trend of high-tech management is also reflected in broader public sector efforts, with the Minnesota Department of Natural Resources reporting \$6.2 million in state expenditures for invasive species activities during fiscal year 2024 in its November 2024 'Invasive Species 2024 Annual Report', showcasing ongoing investment in effective control measures.

## Market Challenge

The Global Aquatic Herbicides Market faces substantial hurdles due to stringent regulatory frameworks and the escalating costs associated with compliance. Given that these chemical formulations are applied directly to water bodies used for drinking, irrigation, and recreation, environmental agencies enforce safety protocols that are often considerably more rigorous than those for terrestrial agriculture. This intense scrutiny necessitates comprehensive toxicological studies and long-term environmental impact assessments, resulting in prolonged approval lifecycles. Such delays create a significant bottleneck, preventing manufacturers from swiftly launching new formulations

required to address emerging weed resistances and shifting invasive species patterns. Furthermore, the sheer financial burden of regulatory maintenance discourages investment in this niche sector. High compliance fees systematically erode profit margins, making it difficult for companies to justify the research and development expenses required for new aquatic products compared to broader agricultural chemicals. This financial strain is evident in recent industry shifts regarding maintenance costs; for instance, CropLife Canada's 2025 proposed regulatory amendments sought to increase post-market fees for maintaining pesticide registrations by up to seven times the rates found in the United States. Such prohibitive costs directly reduce the commercial viability of developing specialized aquatic herbicides, thereby stifling market expansion and innovation.

## **Market Trends**

The development and commercialization of bio-based aquatic herbicide formulations is emerging as a critical trend, driven by the industry's desire to mitigate the ecological footprint of vegetation management. Manufacturers are increasingly prioritizing the synthesis of active ingredients derived from naturally occurring compounds, such as peroxyacetic acid, which offer rapid degradation profiles and reduced toxicity to non-target aquatic life compared to more persistent copper-based alternatives. This innovation directly aligns with the growing demand for environmentally sustainable solutions, particularly in sensitive areas like drinking water reservoirs and recreational lakes. According to a BioSafe Systems case study from June 2025, the application of a peroxyacetic acid-based formulation in a Northeastern U.S. reservoir led to a 60% increase in non-target organism survival while effectively suppressing harmful algal blooms. The widespread implementation of Integrated Pest Management (IPM) strategies is reshaping market dynamics by promoting the combined use of chemical, biological, and physical control methods. Rather than relying solely on chemical eradication, resource managers are adopting holistic protocols that utilize herbicides as part of a broader toolkit to address resistance issues and enhance long-term ecosystem resilience. This strategic shift is increasingly supported by state-level programs that finance multi-faceted control projects. For example, the Michigan Water Stewardship Program announced \$3.6 million in funding for 32 projects in March 2025, as reported in the 'MI Grant Funds Invasive Species Control' article, all integrating various management techniques to address both aquatic and terrestrial invasive species.

## **Key Market Players**

BASF SE

Dow Chemical Company

Syngenta AG

Nufarm Limited

Lonza Group

Land O'Lakes, Inc.

UPL Limited

Element Solutions Inc.

SePRO Corporation

Albaugh LLC

Stepan Company

## Report Scope

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

### Aquatic Herbicides Market, By Type

Glyphosate

2,4-D

Imazapyr

Triclopyr

Others

## Aquatic Herbicides Market, By Mode of Application

Foliar

Submerged

## Aquatic Herbicides Market, By Mode of Action

Selective

non-Selective

## Aquatic Herbicides Market, By Application

Agricultural Waters

Fisheries

Recreational Waters

Others

## Aquatic Herbicides Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

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

**Available Customizations:**

Global Aquatic 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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