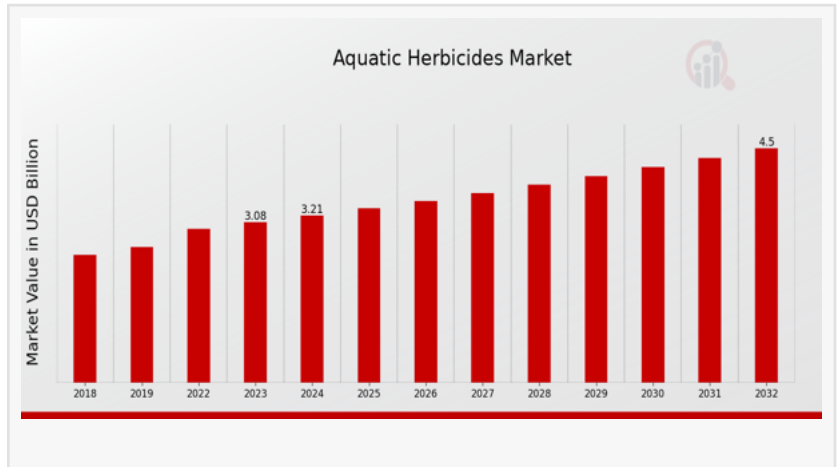


Aquatic Herbicides Market to Reach USD 4.5 Billion by 2032 at 4.31% CAGR, Boosted by Agri Water Needs & Tech Advances

The aquatic herbicides market is growing due to water quality concerns and demand for eco-friendly solutions to control invasive aquatic plants

NEW YORK, NY, UNITED STATES, March 20, 2025 /EINPresswire.com/ --
Aquatic Herbicides Market Overview



The [Aquatic Herbicides Market size](#) was valued at USD 2.95 billion in 2022 and is projected to grow from USD 3.08

billion in 2023 to approximately USD 4.5 billion by 2032. The market is anticipated to register a compound annual growth rate (CAGR) of around 4.31% throughout the forecast period from 2024 to 2032.

Aquatic herbicides are critical for the effective management of invasive aquatic weeds and vegetation that disrupt aquatic ecosystems, hinder water navigation, and reduce agricultural productivity. These herbicides are widely used in water bodies, rice paddies, irrigation canals, and ornamental ponds to restore ecological balance, improve water flow, and support crop yields. Growing environmental concerns, coupled with advancements in eco-friendly formulations, are driving the market forward.

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- 1 Monsanto
- 2 Nufarm
- 3 Evonik Industries
- 4 Solvay
- 5 Syngenta
- 6 SABIC
- 7 Cherokee Manufacturing
- 8 Isagro

- 9 FMC Corporation
- 10 Dow
- 11 Adama Agricultural Solutions
- 12 American Vanguard Corporation
- 13 Nissan Chemical Corporation

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The report highlights four key application areas for aquatic herbicides:

Rice Fields: As rice cultivation expands globally, particularly in Asia-Pacific regions, demand for aquatic herbicides is increasing to manage waterborne weeds that compete with rice crops for nutrients and sunlight. Governments and agricultural organizations are encouraging the use of selective herbicides to minimize environmental impact while ensuring higher yields.

Water Bodies: Lakes, rivers, reservoirs, and other water bodies are under constant threat from invasive aquatic plant species. These weeds often impede navigation, recreation, and fishery operations. Aquatic herbicides are essential in controlling such vegetation and preserving water quality, especially in North America and Europe where regulatory compliance and ecological health are top priorities.

Aquatic Weeds: The direct targeting of aquatic weeds in wetlands and coastal areas has led to the adoption of both selective and non-selective herbicides. With growing awareness of ecological restoration projects and habitat preservation, aquatic weed control remains a significant application segment.

Ornamental Ponds: The landscaping and ornamental horticulture industries are utilizing aquatic herbicides to maintain the aesthetic and biological integrity of ornamental ponds, fountains, and artificial lakes. The rising trend of green urban spaces and residential landscaping is boosting demand in this niche segment.

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The report categorizes the market by four main formulation types:

Granular: Granular herbicides are widely used due to their ease of application and slow-release properties, making them suitable for bottom-growing weeds.

Liquid: Liquid formulations dominate the market, thanks to their versatility and faster absorption

rates in target plant tissues.

Water-Soluble Concentrates: These concentrates are gaining traction for their efficiency and reduced environmental impact, supporting precision agriculture initiatives.

Emulsifiable Concentrates: Emulsifiable formulations are preferred for their ability to mix with water seamlessly and for their enhanced coverage in larger aquatic environments.

Technological advancements in formulation science are leading to the development of biodegradable and eco-friendly herbicides, addressing growing concerns around water contamination and non-target species impacts.

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The report segments treatment methods into:

Surface Application: This is one of the most common methods, where herbicides are sprayed directly onto the surface of aquatic weeds. Surface application is particularly effective for emergent and floating vegetation.

Sub-surface Application: This method involves injecting herbicides below the water surface to target submerged weeds, ensuring better penetration and efficacy.

Drenching: Drenching is employed in highly infested areas and ornamental ponds to provide a concentrated dose of herbicides.

The growing emphasis on precision application techniques and advanced delivery systems is contributing to the expansion of all treatment method segments.

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Selective Herbicides: Selective herbicides are designed to target specific weed species while sparing non-target plants and aquatic life. Rising demand for sustainable weed management practices is fueling the growth of this segment.

Non-selective Herbicides: Used in situations where complete vegetation clearance is necessary, non-selective herbicides continue to be a vital solution in high-infestation zones, despite growing regulatory scrutiny in certain regions.

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North America: North America is anticipated to remain a key revenue generator, driven by extensive lake management programs, regulatory mandates, and the presence of major market players. The United States leads the region due to significant demand in both commercial and recreational water management.

Europe: Europe's strict environmental regulations are prompting the development of low-toxicity and eco-friendly herbicides. Germany, France, and the UK are leading contributors to market growth, especially in wetland restoration and canal maintenance.

Asia-Pacific: Asia-Pacific is expected to witness the fastest growth, driven by expanding rice cultivation, urban development, and governmental initiatives for sustainable agriculture. Countries such as China, India, and Indonesia are prominent markets in this region.

South America: Brazil and Argentina are key contributors in South America, where rising agricultural activity and freshwater resource management are fueling herbicide demand.

Middle East & Africa: With growing attention on water conservation and invasive species control in arid regions, the Middle East & Africa market is experiencing moderate but steady growth.

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Several factors are contributing to the positive outlook for the aquatic herbicides market:

Increasing incidences of invasive aquatic species disrupting ecosystems and economies.

Rising agricultural demand, particularly in rice-producing nations.

Growing emphasis on eco-friendly and biodegradable herbicides.

Government-led environmental restoration projects and water management programs.

Technological innovations such as drone-based application systems and precision delivery mechanisms.

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Despite its growth prospects, the market faces several challenges, including:

Stringent regulatory frameworks limiting herbicide usage in sensitive ecosystems.

Concerns over herbicide resistance and non-target species impact.

Growing public scrutiny regarding chemical inputs in aquatic environments.

The global aquatic herbicides market is poised for significant growth, driven by advancements in formulation science, expanding application areas, and the rising need for sustainable aquatic ecosystem management. As regulatory landscapes evolve and new technologies emerge, market participants are expected to focus on innovation and environmental stewardship to maintain a competitive edge through 2032.

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