

Algaecides Market – Global Industry Size, Share, Trends, Opportunity, & Forecast Segmented By Type (Copper Sulfate, Quaternary Ammonium Compounds, Chelated Copper, Peroxyacetic Acid & Hydrogen Dioxide, Dyes & Colorants, Others), By Mode of Action (Non-Selective, Selective), By Application (Surface Water Treatment, Aquaculture, Sport & Recreational Centers, Agriculture, Others), By Form (Liquid, Dry), By Distribution Channel (Direct, Indirect), By Region and Competition, 2020-2030F

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## **Abstracts**

Global Algaecides Market was valued at USD 2.94 billion in 2024 and is expected to reach USD 4.29 billion by 2030 with a CAGR of 6.50% during the forecast period. The Global Algaecides Market is a dynamic and expanding sector driven by the increasing need for water management solutions, agricultural productivity, and industrial efficiency. Algaecides, chemical agents designed to control and eliminate algae, play a crucial role in various industries, ranging from water treatment to aquaculture and beyond.

According to FAO, By 2050, aquaculture is projected to expand and intensify further, almost doubling its current production. To sustain such production levels, large volumes of feed will be needed in terms of affordable protein, essential amino acid, additives, omega-3 fatty acids, key minerals, vitamins and energy sources. This will require the sourcing of additional raw materials that are currently either not available or otherwise used.

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Key Market Drivers

Increasing Demand in Water Treatment

The increasing demand in water treatment stands as a pivotal driver propelling the growth of the Global Algaecides Market. This driver is underpinned by various factors and considerations within the realm of water management and environmental preservation. The escalating levels of water pollution, driven by industrial discharges, agricultural runoff, and untreated sewage, have heightened the risk of eutrophication. Eutrophication occurs when excess nutrients, particularly phosphorus and nitrogen, stimulate the rapid growth of algae in water bodies. This not only poses ecological threats but also jeopardizes the quality of water for human consumption. As a result, there is an augmented need for effective algaecides to mitigate and prevent algal blooms in diverse water sources, ranging from lakes and rivers to reservoirs and drinking water supplies.

Municipalities and industrial facilities worldwide are increasingly investing in advanced water treatment technologies to ensure the delivery of safe and potable water to urban populations. Algae, if left uncontrolled, can compromise the efficiency of water treatment processes and lead to the production of water with undesirable taste and odor. Algaecides play a crucial role in maintaining the effectiveness of water treatment plants by preventing algae-related issues, including clogging of filters and interference with disinfection processes. Stringent environmental regulations and water quality standards set by regulatory bodies necessitate the implementation of effective measures to control and eliminate contaminants in water bodies. The use of algaecides aligns with these regulatory requirements, ensuring that water resources meet specified quality parameters. The adherence to such standards is not only a legal imperative for municipalities and industries but is also a reflection of the growing awareness and commitment to environmental stewardship.

The demand for algaecides is not limited to utilities and industries; it extends to recreational areas such as swimming pools, ponds, and lakes. Algal blooms in these settings not only affect water aesthetics but can also pose health risks to individuals engaging in recreational activities. The leisure and hospitality sector, recognizing the importance of maintaining pristine water conditions, contributes to the demand for algaecides to enhance the safety and enjoyment of recreational water facilities. The global population is on a trajectory of continuous growth, accompanied by rapid urbanization. As urban centers expand, the demand for clean and safe water escalates. The treatment of water for consumption, sanitation, and industrial processes becomes



paramount. Algaecides emerge as a critical component in this scenario, ensuring that water treatment infrastructures operate efficiently and meet the increasing demand for high-quality water.

Key Market Challenges

Environmental Concerns and Regulatory Scrutiny

Algaecides, like any chemical agents, can raise environmental concerns due to their potential impact on non-target organisms and ecosystems. Regulatory bodies globally are increasingly scrutinizing the use of chemical substances in water treatment and agriculture. Stricter regulations may be imposed on algaecides to ensure their safety, efficacy, and minimal environmental harm. Regulatory compliance may necessitate the development and adoption of environmentally friendly algaecide formulations. Increased scrutiny can lead to a longer and more rigorous approval process for new algaecide products, potentially slowing down market entry.

Investment in research and development for eco-friendly algaecide formulations. Collaboration with regulatory authorities to establish and adhere to industry best practices.

Key Market Trends

Rising Demand for Sustainable and Environmentally Friendly Formulations

There is a discernible shift in market demand towards algaecide formulations that are not only effective in algae control but also environmentally sustainable. As environmental awareness increases, end-users in agriculture, aquaculture, and water treatment industries seek algaecides that minimize ecological impact, biodegrade efficiently, and adhere to stringent regulatory standards. Increased research and development efforts to create innovative, eco-friendly algaecide formulations. Market differentiation based on the environmental sustainability of algaecide products.

Development of bio-based algaecides using natural compounds. Utilization of advanced nanotechnology for targeted and eco-friendly algal control.

Integration of Digital Technologies for Precision Algae Management

The incorporation of digital technologies, including remote sensing, data analytics, and

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monitoring systems, is becoming prevalent for precise and efficient algae management. Digital solutions enable real-time monitoring of water quality, algal bloom detection, and the timely application of algaecides. This trend aligns with the broader concept of precision agriculture and water management. Improved efficiency and accuracy in algaecide application. Enhanced data-driven decision-making for targeted algae control.

Integration of satellite imagery and sensors for early detection of algal blooms. Use of artificial intelligence algorithms to analyze data and predict optimal algaecide application times.

Key Market Players

BASF SE

Lonza AG

SePRO Corporation

BioSafe Systems, LLC

N. Jonas & Company, Inc.

UPL Ltd.

Phoenix Products Co.

Weifang Maochen Chemical Co., Ltd.

Airmax Corp

Oreq Corp

Report Scope:

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

Algaecides Market, By Type:



Copper Sulfate

**Quaternary Ammonium Compounds** 

**Chelated Copper** 

Peroxyacetic Acid & Hydrogen Dioxide

**Dyes & Colorants** 

Others

Algaecides Market, By Mode of Action:

Non-Selective

Selective

Algaecides Market, By Application:

Surface Water Treatment

Aquaculture

Sport & Recreational Centers

Agriculture

Others

Algaecides Market, By Form:

Liquid

Dry

Algaecides Market, By Distribution Channel:



Direct

Indirect

Algaecides 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 Algaecides Market.

Available Customizations:

Global Algaecides 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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