

Global Bactericidal and Algaecidal Agents Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bactericidal and Algaecidal Agents market size is expected to reach \$ 3185 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Bactericidal and algaecidal agents are functional water treatment chemicals used to control bacteria, fungi, algae and biofilms in industrial water systems. They act either by oxidizing microbial cell structures or by disrupting cell membranes, enzyme systems and metabolic processes. Products are generally divided into oxidizing and non-oxidizing types, with common active systems including chlorine- and bromine-releasing compounds, chlorine dioxide, peroxides and peracids, quaternary ammonium compounds, isothiazolinones, glutaraldehyde, DBNPA, bronopol and THPS. Key upstream inputs include hypochlorites, bromide salts, chlorates, hydrogen peroxide, organic acids, quaternary ammonium compounds, isothiazolinones, glutaraldehyde, DBNPA, THPS, surfactants, stabilizers, dispersants, solvents and packaging materials. Major downstream customers include water treatment service providers and companies in power generation, oil and gas, petrochemicals, chemicals, steel, mining, pulp and paper, food and beverage and general manufacturing. Applications cover microbial, algal, biofilm and slime control in cooling water, process water, oilfield water, membrane systems and papermaking water circuits. On the basis of finished industrial water treatment formulations, effective global capacity in 2025 is estimated at approximately 2.21 million metric tons, with sales of around 1.5739 million metric tons and an average ex-works price of approximately USD 1,335 per metric ton. The industry's overall gross margin is estimated at approximately 24%-38%.

Demand for bactericidal and algaecidal agents will continue to be supported by higher cooling-water concentration cycles, increased industrial water reuse and growing

cooling loads in power generation, data centers, petrochemicals, steel and general manufacturing. The accumulation of salts, organic matter and nutrients in recirculating systems can promote the growth of bacteria, fungi, algae and biofilms, reducing heat-transfer efficiency, accelerating under-deposit corrosion and increasing the risk of unplanned shutdowns. Microbiological control is therefore evolving from routine maintenance treatment into an important element of water-system reliability, operating efficiency and asset-life management.

Treatment programs will increasingly shift from high-dose application of a single biocide toward coordinated use of oxidizing biocides, non-oxidizing biocides, biodispersants and online monitoring. Conventional oxidants such as chlorine and hypochlorite provide rapid control of planktonic microorganisms but may be consumed quickly in water with high organic loads and have limited ability to penetrate mature biofilms. Stabilized chlorine, stabilized bromine, chlorine dioxide and combined non-oxidizing systems can provide improved contact time and performance under more complex water conditions. Alternating chemistries with different modes of action, together with penetrating, dispersing and slime-removal treatments, will become increasingly common for established biofilm control.

Product innovation will focus on lower corrosion, reduced residuals, rapid degradation, wider pH compatibility and automated precision dosing. As industrial users increase wastewater reuse and strengthen environmental management, products associated with high halogen levels, persistent residues or greater toxicity will face tighter application requirements. Halogen-free oxidants, stabilized halogen systems, high-activity non-oxidizing agents and formulations designed for specific microorganisms and water conditions are expected to gain wider adoption. Online microbiological monitoring, biofilm detection and digital control systems will also become more closely integrated with chemical treatment, shifting dosing programs from fixed schedules toward dynamic adjustment based on water quality and biological-fouling risk.

Competition will gradually move beyond commodity chemical pricing toward regulatory registration, efficacy validation, application expertise and continuing technical service. The U.S. Environmental Protection Agency has established a recommended test method for products making efficacy claims against *Legionella* in cooling-tower water, indicating higher expectations for supporting data and standardized product claims. At the same time, variations in organic load, temperature, pH, construction materials and microbial populations make it difficult for a single formulation to perform consistently across all systems. Integrated suppliers with capabilities in water analysis, microorganism identification, chemistry rotation, automated dosing and on-site support

are expected to achieve stronger customer retention, while producers relying mainly on low-priced commodity quaternary ammonium, hypochlorite or low-active blended products may face continued margin pressure.

Report Scope

This report studies the global Bactericidal and Algaecidal Agents production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bactericidal and Algaecidal Agents and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bactericidal and Algaecidal Agents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bactericidal and Algaecidal Agents total production and demand, 2021-2032, (Kilotons)

Global Bactericidal and Algaecidal Agents total production value, 2021-2032, (USD Million)

Global Bactericidal and Algaecidal Agents production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Bactericidal and Algaecidal Agents consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Bactericidal and Algaecidal Agents domestic production, consumption, key domestic manufacturers and share

Global Bactericidal and Algaecidal Agents production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Bactericidal and Algaecidal Agents production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Bactericidal and Algaecidal Agents production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Bactericidal and Algaecidal Agents market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ecolab, Solenis, LANXESS, Buckman, Kurita Water Industries, Kemira, Italmatch Chemicals, THOR, Shandong Taihe Technologies, Shandong IRO Water Treatment, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bactericidal and Algaecidal Agents market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bactericidal and Algaecidal Agents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bactericidal and Algaecidal Agents Market, Segmentation by Type:

Oxidizing Agents

Non-oxidizing Agents

Global Bactericidal and Algaecidal Agents Market, Segmentation by Primary Active Chemistry:

Halogen-based Oxidants

Peroxide and Peracid Oxidants

Quaternary Ammonium Compounds

Other

Global Bactericidal and Algaecidal Agents Market, Segmentation by Product Form:

Liquid Concentrates

Powders and Granules

Tablets and Briquettes

Global Bactericidal and Algaecidal Agents Market, Segmentation by Application:

Power Generation

Oil, Gas and Petrochemicals

Chemicals and General Manufacturing

Pulp and Paper

Other

Companies Profiled:

Ecolab

Solenis

LANXESS

Buckman

Kurita Water Industries

Kemira

Italmatch Chemicals

THOR

Shandong Taihe Technologies

Shandong IRO Water Treatment

Shandong Xintai Water Treatment Technology

Shandong Ludong Environmental Technology

Key Questions Answered:

1. How big is the global Bactericidal and Algaecidal Agents market?
2. What is the demand of the global Bactericidal and Algaecidal Agents market?
3. What is the year over year growth of the global Bactericidal and Algaecidal Agents market?
4. What is the production and production value of the global Bactericidal and Algaecidal Agents market?
5. Who are the key producers in the global Bactericidal and Algaecidal Agents market?
6. What are the growth factors driving the market demand?

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