

Global Bactericidal and Algaecidal Agents Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bactericidal and Algaecidal Agents market size was valued at US\$ 2162 million in 2025 and is forecast to a readjusted size of US\$ 3185 million by 2032 with a CAGR of 5.7% during review period.

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 is a detailed and comprehensive analysis for global Bactericidal and Algaecidal Agents market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bactericidal and Algaecidal Agents market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bactericidal and Algaecidal Agents market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bactericidal and Algaecidal Agents market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bactericidal and Algaecidal Agents market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bactericidal and Algaecidal Agents

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bactericidal and Algaecidal Agents market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Bactericidal and Algaecidal Agents market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Oxidizing Agents

Non-oxidizing Agents

Market segment by Primary Active Chemistry

Halogen-based Oxidants

Peroxide and Peracid Oxidants

Quaternary Ammonium Compounds

Other

Market segment by Product Form

Liquid Concentrates

Powders and Granules

Tablets and Briquettes

Market segment by Application

Power Generation

Oil, Gas and Petrochemicals

Chemicals and General Manufacturing

Pulp and Paper

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Bactericidal and Algaecidal Agents product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bactericidal and Algaecidal Agents, with price, sales quantity, revenue, and global market share of Bactericidal and Algaecidal Agents from 2021 to 2026.

Chapter 3, the Bactericidal and Algaecidal Agents competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bactericidal and Algaecidal Agents breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Bactericidal and Algaecidal Agents market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bactericidal and Algaecidal Agents.

Chapter 14 and 15, to describe Bactericidal and Algaecidal Agents sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Bactericidal and Algaecidal Agents Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Oxidizing Agents

1.3.3 Non-oxidizing Agents

1.4 Market Analysis by Primary Active Chemistry

1.4.1 Overview: Global Bactericidal and Algaecidal Agents Consumption Value by Primary Active Chemistry: 2021 Versus 2025 Versus 2032

1.4.2 Halogen-based Oxidants

1.4.3 Peroxide and Peracid Oxidants

1.4.4 Quaternary Ammonium Compounds

1.4.5 Other

1.5 Market Analysis by Product Form

1.5.1 Overview: Global Bactericidal and Algaecidal Agents Consumption Value by Product Form: 2021 Versus 2025 Versus 2032

1.5.2 Liquid Concentrates

1.5.3 Powders and Granules

1.5.4 Tablets and Briquettes

1.6 Market Analysis by Application

1.6.1 Overview: Global Bactericidal and Algaecidal Agents Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Power Generation

1.6.3 Oil, Gas and Petrochemicals

1.6.4 Chemicals and General Manufacturing

1.6.5 Pulp and Paper

1.6.6 Other

1.7 Global Bactericidal and Algaecidal Agents Market Size & Forecast

1.7.1 Global Bactericidal and Algaecidal Agents Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Bactericidal and Algaecidal Agents Sales Quantity (2021-2032)

1.7.3 Global Bactericidal and Algaecidal Agents Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Ecolab

- 2.1.1 Ecolab Details
- 2.1.2 Ecolab Major Business
- 2.1.3 Ecolab Bactericidal and Algaecidal Agents Product and Services
- 2.1.4 Ecolab Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Ecolab Recent Developments/Updates
- 2.2 Solenis
 - 2.2.1 Solenis Details
 - 2.2.2 Solenis Major Business
 - 2.2.3 Solenis Bactericidal and Algaecidal Agents Product and Services
 - 2.2.4 Solenis Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Solenis Recent Developments/Updates
- 2.3 LANXESS
 - 2.3.1 LANXESS Details
 - 2.3.2 LANXESS Major Business
 - 2.3.3 LANXESS Bactericidal and Algaecidal Agents Product and Services
 - 2.3.4 LANXESS Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 LANXESS Recent Developments/Updates
- 2.4 Buckman
 - 2.4.1 Buckman Details
 - 2.4.2 Buckman Major Business
 - 2.4.3 Buckman Bactericidal and Algaecidal Agents Product and Services
 - 2.4.4 Buckman Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Buckman Recent Developments/Updates
- 2.5 Kurita Water Industries
 - 2.5.1 Kurita Water Industries Details
 - 2.5.2 Kurita Water Industries Major Business
 - 2.5.3 Kurita Water Industries Bactericidal and Algaecidal Agents Product and Services
 - 2.5.4 Kurita Water Industries Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Kurita Water Industries Recent Developments/Updates
- 2.6 Kemira
 - 2.6.1 Kemira Details
 - 2.6.2 Kemira Major Business
 - 2.6.3 Kemira Bactericidal and Algaecidal Agents Product and Services
 - 2.6.4 Kemira Bactericidal and Algaecidal Agents Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Kemira Recent Developments/Updates

2.7 Italmatch Chemicals

2.7.1 Italmatch Chemicals Details

2.7.2 Italmatch Chemicals Major Business

2.7.3 Italmatch Chemicals Bactericidal and Algaecidal Agents Product and Services

2.7.4 Italmatch Chemicals Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Italmatch Chemicals Recent Developments/Updates

2.8 THOR

2.8.1 THOR Details

2.8.2 THOR Major Business

2.8.3 THOR Bactericidal and Algaecidal Agents Product and Services

2.8.4 THOR Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 THOR Recent Developments/Updates

2.9 Shandong Taihe Technologies

2.9.1 Shandong Taihe Technologies Details

2.9.2 Shandong Taihe Technologies Major Business

2.9.3 Shandong Taihe Technologies Bactericidal and Algaecidal Agents Product and Services

2.9.4 Shandong Taihe Technologies Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Shandong Taihe Technologies Recent Developments/Updates

2.10 Shandong IRO Water Treatment

2.10.1 Shandong IRO Water Treatment Details

2.10.2 Shandong IRO Water Treatment Major Business

2.10.3 Shandong IRO Water Treatment Bactericidal and Algaecidal Agents Product and Services

2.10.4 Shandong IRO Water Treatment Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Shandong IRO Water Treatment Recent Developments/Updates

2.11 Shandong Xintai Water Treatment Technology

2.11.1 Shandong Xintai Water Treatment Technology Details

2.11.2 Shandong Xintai Water Treatment Technology Major Business

2.11.3 Shandong Xintai Water Treatment Technology Bactericidal and Algaecidal Agents Product and Services

2.11.4 Shandong Xintai Water Treatment Technology Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share

(2021-2026)

2.11.5 Shandong Xintai Water Treatment Technology Recent Developments/Updates

2.12 Shandong Ludong Environmental Technology

2.12.1 Shandong Ludong Environmental Technology Details

2.12.2 Shandong Ludong Environmental Technology Major Business

2.12.3 Shandong Ludong Environmental Technology Bactericidal and Algaecidal Agents Product and Services

2.12.4 Shandong Ludong Environmental Technology Bactericidal and Algaecidal Agents Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Shandong Ludong Environmental Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BACTERICIDAL AND ALGAECIDAL AGENTS BY MANUFACTURER

3.1 Global Bactericidal and Algaecidal Agents Sales Quantity by Manufacturer (2021-2026)

3.2 Global Bactericidal and Algaecidal Agents Revenue by Manufacturer (2021-2026)

3.3 Global Bactericidal and Algaecidal Agents Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Bactericidal and Algaecidal Agents by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Bactericidal and Algaecidal Agents Manufacturer Market Share in 2025

3.4.3 Top 6 Bactericidal and Algaecidal Agents Manufacturer Market Share in 2025

3.5 Bactericidal and Algaecidal Agents Market: Overall Company Footprint Analysis

3.5.1 Bactericidal and Algaecidal Agents Market: Region Footprint

3.5.2 Bactericidal and Algaecidal Agents Market: Company Product Type Footprint

3.5.3 Bactericidal and Algaecidal Agents Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Bactericidal and Algaecidal Agents Market Size by Region

4.1.1 Global Bactericidal and Algaecidal Agents Sales Quantity by Region (2021-2032)

4.1.2 Global Bactericidal and Algaecidal Agents Consumption Value by Region (2021-2032)

4.1.3 Global Bactericidal and Algaecidal Agents Average Price by Region (2021-2032)

4.2 North America Bactericidal and Algaecidal Agents Consumption Value (2021-2032)

4.3 Europe Bactericidal and Algaecidal Agents Consumption Value (2021-2032)

4.4 Asia-Pacific Bactericidal and Algaecidal Agents Consumption Value (2021-2032)

4.5 South America Bactericidal and Algaecidal Agents Consumption Value (2021-2032)

4.6 Middle East & Africa Bactericidal and Algaecidal Agents Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2032)

5.2 Global Bactericidal and Algaecidal Agents Consumption Value by Type (2021-2032)

5.3 Global Bactericidal and Algaecidal Agents Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2032)

6.2 Global Bactericidal and Algaecidal Agents Consumption Value by Application (2021-2032)

6.3 Global Bactericidal and Algaecidal Agents Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2032)

7.2 North America Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2032)

7.3 North America Bactericidal and Algaecidal Agents Market Size by Country

7.3.1 North America Bactericidal and Algaecidal Agents Sales Quantity by Country (2021-2032)

7.3.2 North America Bactericidal and Algaecidal Agents Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2032)

8.2 Europe Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2032)

8.3 Europe Bactericidal and Algaecidal Agents Market Size by Country

8.3.1 Europe Bactericidal and Algaecidal Agents Sales Quantity by Country

(2021-2032)

8.3.2 Europe Bactericidal and Algaecidal Agents Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Bactericidal and Algaecidal Agents Market Size by Region

9.3.1 Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Bactericidal and Algaecidal Agents Consumption Value by Region
(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Bactericidal and Algaecidal Agents Sales Quantity by Type
(2021-2032)

10.2 South America Bactericidal and Algaecidal Agents Sales Quantity by Application
(2021-2032)

10.3 South America Bactericidal and Algaecidal Agents Market Size by Country

10.3.1 South America Bactericidal and Algaecidal Agents Sales Quantity by Country
(2021-2032)

10.3.2 South America Bactericidal and Algaecidal Agents Consumption Value by
Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Bactericidal and Algaecidal Agents Market Size by Country

11.3.1 Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Bactericidal and Algaecidal Agents Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Bactericidal and Algaecidal Agents Market Drivers

12.2 Bactericidal and Algaecidal Agents Market Restraints

12.3 Bactericidal and Algaecidal Agents Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Bactericidal and Algaecidal Agents and Key Manufacturers

13.2 Manufacturing Costs Percentage of Bactericidal and Algaecidal Agents

13.3 Bactericidal and Algaecidal Agents Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Bactericidal and Algaecidal Agents Typical Distributors

14.3 Bactericidal and Algaecidal Agents Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Bactericidal and Algaecidal Agents Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Bactericidal and Algaecidal Agents Consumption Value by Primary Active Chemistry, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Bactericidal and Algaecidal Agents Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Bactericidal and Algaecidal Agents Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Ecolab Basic Information, Manufacturing Base and Competitors
- Table 6. Ecolab Major Business
- Table 7. Ecolab Bactericidal and Algaecidal Agents Product and Services
- Table 8. Ecolab Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Ecolab Recent Developments/Updates
- Table 10. Solenis Basic Information, Manufacturing Base and Competitors
- Table 11. Solenis Major Business
- Table 12. Solenis Bactericidal and Algaecidal Agents Product and Services
- Table 13. Solenis Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Solenis Recent Developments/Updates
- Table 15. LANXESS Basic Information, Manufacturing Base and Competitors
- Table 16. LANXESS Major Business
- Table 17. LANXESS Bactericidal and Algaecidal Agents Product and Services
- Table 18. LANXESS Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. LANXESS Recent Developments/Updates
- Table 20. Buckman Basic Information, Manufacturing Base and Competitors
- Table 21. Buckman Major Business
- Table 22. Buckman Bactericidal and Algaecidal Agents Product and Services
- Table 23. Buckman Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. Buckman Recent Developments/Updates
- Table 25. Kurita Water Industries Basic Information, Manufacturing Base and

Competitors

Table 26. Kurita Water Industries Major Business

Table 27. Kurita Water Industries Bactericidal and Algaecidal Agents Product and Services

Table 28. Kurita Water Industries Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Kurita Water Industries Recent Developments/Updates

Table 30. Kemira Basic Information, Manufacturing Base and Competitors

Table 31. Kemira Major Business

Table 32. Kemira Bactericidal and Algaecidal Agents Product and Services

Table 33. Kemira Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Kemira Recent Developments/Updates

Table 35. Italmatch Chemicals Basic Information, Manufacturing Base and Competitors

Table 36. Italmatch Chemicals Major Business

Table 37. Italmatch Chemicals Bactericidal and Algaecidal Agents Product and Services

Table 38. Italmatch Chemicals Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Italmatch Chemicals Recent Developments/Updates

Table 40. THOR Basic Information, Manufacturing Base and Competitors

Table 41. THOR Major Business

Table 42. THOR Bactericidal and Algaecidal Agents Product and Services

Table 43. THOR Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. THOR Recent Developments/Updates

Table 45. Shandong Taihe Technologies Basic Information, Manufacturing Base and Competitors

Table 46. Shandong Taihe Technologies Major Business

Table 47. Shandong Taihe Technologies Bactericidal and Algaecidal Agents Product and Services

Table 48. Shandong Taihe Technologies Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Shandong Taihe Technologies Recent Developments/Updates

Table 50. Shandong IRO Water Treatment Basic Information, Manufacturing Base and Competitors

Table 51. Shandong IRO Water Treatment Major Business

Table 52. Shandong IRO Water Treatment Bactericidal and Algaecidal Agents Product and Services

Table 53. Shandong IRO Water Treatment Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Shandong IRO Water Treatment Recent Developments/Updates

Table 55. Shandong Xintai Water Treatment Technology Basic Information, Manufacturing Base and Competitors

Table 56. Shandong Xintai Water Treatment Technology Major Business

Table 57. Shandong Xintai Water Treatment Technology Bactericidal and Algaecidal Agents Product and Services

Table 58. Shandong Xintai Water Treatment Technology Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Shandong Xintai Water Treatment Technology Recent Developments/Updates

Table 60. Shandong Ludong Environmental Technology Basic Information, Manufacturing Base and Competitors

Table 61. Shandong Ludong Environmental Technology Major Business

Table 62. Shandong Ludong Environmental Technology Bactericidal and Algaecidal Agents Product and Services

Table 63. Shandong Ludong Environmental Technology Bactericidal and Algaecidal Agents Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Shandong Ludong Environmental Technology Recent Developments/Updates

Table 65. Global Bactericidal and Algaecidal Agents Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 66. Global Bactericidal and Algaecidal Agents Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Bactericidal and Algaecidal Agents Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 68. Market Position of Manufacturers in Bactericidal and Algaecidal Agents, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Bactericidal and Algaecidal Agents Production Site of Key Manufacturer

Table 70. Bactericidal and Algaecidal Agents Market: Company Product Type Footprint

Table 71. Bactericidal and Algaecidal Agents Market: Company Product Application Footprint

Table 72. Bactericidal and Algaecidal Agents New Market Entrants and Barriers to

Market Entry

Table 73. Bactericidal and Algaecidal Agents Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Bactericidal and Algaecidal Agents Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Bactericidal and Algaecidal Agents Sales Quantity by Region (2021-2026) & (Kilotons)

Table 76. Global Bactericidal and Algaecidal Agents Sales Quantity by Region (2027-2032) & (Kilotons)

Table 77. Global Bactericidal and Algaecidal Agents Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Bactericidal and Algaecidal Agents Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Bactericidal and Algaecidal Agents Average Price by Region (2021-2026) & (US\$/Ton)

Table 80. Global Bactericidal and Algaecidal Agents Average Price by Region (2027-2032) & (US\$/Ton)

Table 81. Global Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2026) & (Kilotons)

Table 82. Global Bactericidal and Algaecidal Agents Sales Quantity by Type (2027-2032) & (Kilotons)

Table 83. Global Bactericidal and Algaecidal Agents Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Bactericidal and Algaecidal Agents Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Bactericidal and Algaecidal Agents Average Price by Type (2021-2026) & (US\$/Ton)

Table 86. Global Bactericidal and Algaecidal Agents Average Price by Type (2027-2032) & (US\$/Ton)

Table 87. Global Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2026) & (Kilotons)

Table 88. Global Bactericidal and Algaecidal Agents Sales Quantity by Application (2027-2032) & (Kilotons)

Table 89. Global Bactericidal and Algaecidal Agents Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Bactericidal and Algaecidal Agents Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Bactericidal and Algaecidal Agents Average Price by Application (2021-2026) & (US\$/Ton)

Table 92. Global Bactericidal and Algaecidal Agents Average Price by Application (2027-2032) & (US\$/Ton)

Table 93. North America Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2026) & (Kilotons)

Table 94. North America Bactericidal and Algaecidal Agents Sales Quantity by Type (2027-2032) & (Kilotons)

Table 95. North America Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2026) & (Kilotons)

Table 96. North America Bactericidal and Algaecidal Agents Sales Quantity by Application (2027-2032) & (Kilotons)

Table 97. North America Bactericidal and Algaecidal Agents Sales Quantity by Country (2021-2026) & (Kilotons)

Table 98. North America Bactericidal and Algaecidal Agents Sales Quantity by Country (2027-2032) & (Kilotons)

Table 99. North America Bactericidal and Algaecidal Agents Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Bactericidal and Algaecidal Agents Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2026) & (Kilotons)

Table 102. Europe Bactericidal and Algaecidal Agents Sales Quantity by Type (2027-2032) & (Kilotons)

Table 103. Europe Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2026) & (Kilotons)

Table 104. Europe Bactericidal and Algaecidal Agents Sales Quantity by Application (2027-2032) & (Kilotons)

Table 105. Europe Bactericidal and Algaecidal Agents Sales Quantity by Country (2021-2026) & (Kilotons)

Table 106. Europe Bactericidal and Algaecidal Agents Sales Quantity by Country (2027-2032) & (Kilotons)

Table 107. Europe Bactericidal and Algaecidal Agents Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Bactericidal and Algaecidal Agents Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2026) & (Kilotons)

Table 110. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Type (2027-2032) & (Kilotons)

Table 111. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by

Application (2021-2026) & (Kilotons)

Table 112. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Application (2027-2032) & (Kilotons)

Table 113. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Region (2021-2026) & (Kilotons)

Table 114. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity by Region (2027-2032) & (Kilotons)

Table 115. Asia-Pacific Bactericidal and Algaecidal Agents Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Bactericidal and Algaecidal Agents Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2026) & (Kilotons)

Table 118. South America Bactericidal and Algaecidal Agents Sales Quantity by Type (2027-2032) & (Kilotons)

Table 119. South America Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2026) & (Kilotons)

Table 120. South America Bactericidal and Algaecidal Agents Sales Quantity by Application (2027-2032) & (Kilotons)

Table 121. South America Bactericidal and Algaecidal Agents Sales Quantity by Country (2021-2026) & (Kilotons)

Table 122. South America Bactericidal and Algaecidal Agents Sales Quantity by Country (2027-2032) & (Kilotons)

Table 123. South America Bactericidal and Algaecidal Agents Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Bactericidal and Algaecidal Agents Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Type (2021-2026) & (Kilotons)

Table 126. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Type (2027-2032) & (Kilotons)

Table 127. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Application (2021-2026) & (Kilotons)

Table 128. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Application (2027-2032) & (Kilotons)

Table 129. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Country (2021-2026) & (Kilotons)

Table 130. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity by Country (2027-2032) & (Kilotons)

Table 131. Middle East & Africa Bactericidal and Algaecidal Agents Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Bactericidal and Algaecidal Agents Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Bactericidal and Algaecidal Agents Raw Material

Table 134. Key Manufacturers of Bactericidal and Algaecidal Agents Raw Materials

Table 135. Bactericidal and Algaecidal Agents Typical Distributors

Table 136. Bactericidal and Algaecidal Agents Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Bactericidal and Algaecidal Agents Picture
- Figure 2. Global Bactericidal and Algaecidal Agents Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Bactericidal and Algaecidal Agents Revenue Market Share by Type in 2025
- Figure 4. Oxidizing Agents Examples
- Figure 5. Non-oxidizing Agents Examples
- Figure 6. Global Bactericidal and Algaecidal Agents Revenue by Primary Active Chemistry, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Bactericidal and Algaecidal Agents Revenue Market Share by Primary Active Chemistry in 2025
- Figure 8. Halogen-based Oxidants Examples
- Figure 9. Peroxide and Peracid Oxidants Examples
- Figure 10. Quaternary Ammonium Compounds Examples
- Figure 11. Other Examples
- Figure 12. Global Bactericidal and Algaecidal Agents Revenue by Product Form, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Bactericidal and Algaecidal Agents Revenue Market Share by Product Form in 2025
- Figure 14. Liquid Concentrates Examples
- Figure 15. Powders and Granules Examples
- Figure 16. Tablets and Briquettes Examples
- Figure 17. Global Bactericidal and Algaecidal Agents Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Bactericidal and Algaecidal Agents Revenue Market Share by Application in 2025
- Figure 19. Power Generation Examples
- Figure 20. Oil, Gas and Petrochemicals Examples
- Figure 21. Chemicals and General Manufacturing Examples
- Figure 22. Pulp and Paper Examples
- Figure 23. Other Examples
- Figure 24. Global Bactericidal and Algaecidal Agents Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Bactericidal and Algaecidal Agents Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Bactericidal and Algaecidal Agents Sales Quantity (2021-2032) & (Kilotons)

Figure 27. Global Bactericidal and Algaecidal Agents Price (2021-2032) & (US\$/Ton)

Figure 28. Global Bactericidal and Algaecidal Agents Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Bactericidal and Algaecidal Agents Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Bactericidal and Algaecidal Agents by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Bactericidal and Algaecidal Agents Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Bactericidal and Algaecidal Agents Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Bactericidal and Algaecidal Agents Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Bactericidal and Algaecidal Agents Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Bactericidal and Algaecidal Agents Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Bactericidal and Algaecidal Agents Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Bactericidal and Algaecidal Agents Average Price by Type (2021-2032) & (US\$/Ton)

Figure 43. Global Bactericidal and Algaecidal Agents Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Bactericidal and Algaecidal Agents Revenue Market Share by Application (2021-2032)

Figure 45. Global Bactericidal and Algaecidal Agents Average Price by Application (2021-2032) & (US\$/Ton)

Figure 46. North America Bactericidal and Algaecidal Agents Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Bactericidal and Algaecidal Agents Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Bactericidal and Algaecidal Agents Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Bactericidal and Algaecidal Agents Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Bactericidal and Algaecidal Agents Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Bactericidal and Algaecidal Agents Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Bactericidal and Algaecidal Agents Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Bactericidal and Algaecidal Agents Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 58. France Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Bactericidal and Algaecidal Agents Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Bactericidal and Algaecidal Agents Consumption Value Market

Share by Region (2021-2032)

Figure 66. China Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 69. India Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Bactericidal and Algaecidal Agents Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Bactericidal and Algaecidal Agents Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Bactericidal and Algaecidal Agents Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Bactericidal and Algaecidal Agents Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Bactericidal and Algaecidal Agents Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Bactericidal and Algaecidal Agents Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Bactericidal and Algaecidal Agents Consumption Value (2021-2032) & (USD Million)

Figure 86. Bactericidal and Algaecidal Agents Market Drivers

Figure 87. Bactericidal and Algaecidal Agents Market Restraints

Figure 88. Bactericidal and Algaecidal Agents Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Bactericidal and Algaecidal Agents in 2025

Figure 91. Manufacturing Process Analysis of Bactericidal and Algaecidal Agents

Figure 92. Bactericidal and Algaecidal Agents Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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