

Green Chemicals Market by Type (Bio-alcohols, Bio-polymers, Bio-organic acids, Bio-ketones, Others), Application (Industrial & Chemical, Food & Beverages, Pharmaceuticals, Packaging, Construction, Automotive, Other Industries) - Global Forecasts to 2029

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Abstracts

Green Chemicals Market by Type (Bio-alcohols, Bio-polymers, Bio-organic acids, Bio-ketones, Others), Application (Industrial & Chemical, Food & Beverages, Pharmaceuticals, Packaging, Construction, Automotive, Other Industries) — Global Forecasts to 2029

The research report titled, “Green Chemicals Market by Type (Bio-alcohols, Bio-polymers, Bio-organic acids, Bio-ketones, Others), Application (Industrial & Chemical, Food & Beverages, Pharmaceuticals, Packaging, Construction, Automotive, Other Industries) — Global Forecasts to 2029,” provides an in-depth analysis of the green chemicals market across five major geographies and emphasizes on the current market trends, market size, market shares, recent developments, and forecast till 2029. The Green Chemicals Market is expected to reach \$217.18 billion by 2029, at a CAGR of 11.6% during the forecast period, 2022–2029.

The growth of this market is mainly attributed to the scarcity of non-renewable resources, growing awareness regarding sustainable products, rising government initiatives to promote the use of green chemicals, growing environmental concerns & the rising demand for bioethanol, and the growing demand for biodiesel as an alternative fuel. Moreover, the regulations & legislation supporting the use of bioplastics and the growing focus on R&D for algae-based biofuel production provide significant

opportunities in this market.

The study offers a comprehensive analysis of the green chemicals market with respect to the product, application, and geography. The green chemicals market is mainly segmented by product (bio-alcohols {bio-ethanol, bio-butanol, bio-methanol, and other bio-alcohols}, bio-organic acids {bio-lactic acid, bio-acetic acid, bio-citric acid, bio-adipic acid, bio-acrylic acid, bio-succinic acid, and other bio-organic acids}, bio-ketones, bio-polymers {polylactic acid, bio-polyethylene, and other bio-polymers}, and other green chemicals), application (industrial & chemicals, food & beverages, pharmaceuticals, packaging, construction, automotive, and other applications), and geography. The study also evaluates industry competitors and analyzes the market at the country level.

Based on product, the green chemicals market is mainly segmented into bio-alcohols, bio-polymers, bio-organic acids, bio-ketones, and other green chemicals. The bio-alcohols segment is expected to account for the largest share of the green chemicals market in 2022. The large share of this segment is mainly attributed to the abundant availability of raw materials, rapid urbanization, rising crude oil prices, stringent emission regulations imposed by governments of various countries, and increasing energy consumption.

However, the bio-polymers segment is expected to witness significant growth due to the consumer preference for bio-based products over synthetic products, rising R&D in bio-polymers, adoption of bioplastics by the packaging industry, and increased utilization of flexible packaging by the food & beverages industry. Moreover, regulations & legal acts supporting bioplastics usage hold attractive growth opportunities for players operating in the bio-polymers market.

Based on type, the bio-alcohols market is mainly segmented into bio-ethanol, bio-butanol, bio-methanol, and other bio-alcohols. The bio-ethanol segment is expected to account for the largest share of the bio-alcohols market in 2022. The large share of this segment is mainly attributed to the growing environmental concerns that lead to an inclination of manufacturers towards bio-ethanol production, low cost, and abundant raw material availability. However, the bio-butanol segment is expected to grow at the highest CAGR during the forecast period. The rapid growth of this segment is mainly attributed to its higher energy content and lower Reid vapor pressure.

Based on type, the bio-lactic acid segment is expected to account for the largest share of the bio-organic acids market in 2022. The large share of this segment is mainly attributed to its wide range of applications. It also produces oxygenated chemicals, plant

growth regulators, and special chemical intermediates. Additionally, the growing demand for Poly Lactic Acid (PLA) in packaging applications, especially food packaging, is anticipated to drive the demand for bio-lactic acid in the next few years.

Based on application, the green chemicals market is mainly segmented into industrial & chemicals, food & beverages, pharmaceuticals, packaging, construction, automotive, and other applications. The industrial & chemicals segment is expected to account for the largest share of the green chemicals market in 2022. The large share of this segment is mainly attributed to the growing industrialization and urbanization, increasing energy demand across the globe, increase in chemical transparency across the supply chain, and ban on the production and usage of hazardous substances.

Geographically, the market is segmented into five major regions: North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. Europe is expected to account for the largest share of the green chemicals market in 2022. The large share of this region is primarily attributed to the growing demand for sustainable products, coupled with the presence of prominent players in the region and the rising adoption of green chemicals across different industries, including food & beverages, personal care, automotive, and packaging. In addition, the chemicals industry of the region is increasingly focusing on the production of green chemicals to develop sustainable and eco-friendly solutions.

The key players operating in the green chemicals market are Cargill, Incorporated (U.S.), Mitsubishi Chemical Holdings Corporation (Japan), BASF SE (Germany), DuPont de Nemours, Inc. (U.S.), Koninklijke DSM N.V. (Netherlands), Evonik Industries AG (Germany), SECOS Group Ltd. (Australia), Braskem SA (Brazil), Aemetis, Inc. (U.S.), and Albemarle Corporation (U.S.), among others.

Key Questions Answered in the Report-

Which are the high-growth market segments in terms of product, application, and geography?

What is the historical market size for the green chemicals market?

What are the market forecasts and estimates for the period 2022–2029?

What are the major drivers, restraints, opportunities, and challenges in the green chemicals market?

Who are the major players in the market, and what share of the market do they hold?

Who are the major players in various countries, and what market share do they hold?

How is the competitive landscape for the green chemicals market?

What are the recent developments in the green chemicals market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the green chemicals market, and how do they compete with other players?

Scope of the Report

Green Chemicals Market, by Product

Bio-alcohols

Bio-ethanol

Bio-butanol

Bio-methanol

Other bio-alcohols

Bio-organic Acids

Bio-lactic Acid

Bio-acetic Acid

Bio-citric Acid

Bio-adipic Acid

Bio-acrylic Acid

Bio-succinic Acid

Other bio-organic Acids

Bio-ketones

Bio-polymers

Polylactic Acid

Bio-polyethylene

Other bio-polymers

Other Green Chemicals

Green Chemicals Market, by Application

Industrial & Chemicals

Pharmaceuticals

Packaging

Food and Beverages

Construction

Automotive

Other Applications

Green Chemicals Market, by Geography

Europe

Germany

France

U.K.

Italy

Spain

Rest of Europe (RoE)

North America

U.S.

Canada

Asia-Pacific (APAC)

China

Japan

India

Rest of Asia-Pacific (RoAPAC)

Latin America

Middle East & Africa (MEA)

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency
- 1.4. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Approach
- 2.2. Data Collection & Validation
 - 2.2.1. Secondary Research
 - 2.2.2. Primary Research
- 2.3. Market Assessment
 - 2.3.1. Market Size Estimation
 - 2.3.1.1. Bottom-up Approach
 - 2.3.1.2. Top-down Approach
 - 2.3.1.3. Growth forecast
- 2.4. Assumptions for the Study
- 2.5. Limitations for the Study

3. EXECUTIVE SUMMARY

- 3.1. Introduction
- 3.2. Segment Analysis
 - 3.2.1. Green Chemicals Market, by Product Analysis
 - 3.2.2. Green Chemicals Market, by Application Analysis
 - 3.2.3. Green Chemicals Market, by Regional Analysis
- 3.3. Key Players

4. MARKET INSIGHTS

- 4.1. Introduction
- 4.2. Drivers
 - 4.2.1. Scarcity of Non-renewable Resources
 - 4.2.2. Growing Awareness Regarding Sustainable Products
 - 4.2.3. Rising Government Initiatives to Promote the Use of Green Chemicals

- 4.2.4. Growing Environmental Concerns and the Rising Demand for Bioethanol
- 4.2.5. Growing Demand for Biodiesel as an Alternative Fuel
- 4.3. Restraints
 - 4.3.1. High Costs of Green Chemicals
 - 4.3.2. Fluctuating Raw Material Prices
- 4.4. Opportunities
 - 4.4.1. Regulations & Legislation Supporting the Use of Bioplastics
 - 4.4.2. Growing Focus on R&D for Algae-Based Biofuel Production
- 4.5. Challenges
 - 4.5.1. Specific Requirements of the Biodegradation Process
 - 4.5.2. Formation of Inhibitory Compounds During Bioethanol Production
- 4.6. COVID-19 Impact on the Green Chemicals Market

5. GREEN CHEMICALS MARKET, BY PRODUCT

- 5.1. Introduction
- 5.2. Bio-Alcohols
 - 5.2.1. Bio-ethanol
 - 5.2.2. Bio-butanol
 - 5.2.3. Bio-methanol
 - 5.2.4. Other Bio-alcohols
- 5.3. Bio-Organic Acids
 - 5.3.1. Bio-lactic Acid
 - 5.3.2. Bio-acetic Acid
 - 5.3.3. Bio-citric Acid
 - 5.3.4. Bio-adipic Acid
 - 5.3.5. Bio-acrylic Acid
 - 5.3.6. Bio-succinic Acid
 - 5.3.7. Other Bio-organic Acids
- 5.4. Bio-ketones
- 5.5. Bio-polymers
 - 5.5.1. Polylactic Acid (PLA)
 - 5.5.2. Bio-polyethylene
 - 5.5.3. Other Bio-polymers
- 5.6. Other Green Chemicals

6. GREEN CHEMICALS MARKET, BY APPLICATION

- 6.1. Introduction

- 6.2. Industrial & Chemicals
- 6.3. Pharmaceuticals
- 6.4. Packaging
- 6.5. Food & Beverages
- 6.6. Construction
- 6.7. Automotive
- 6.8. Other Applications

7. GREEN CHEMICALS MARKET, BY GEOGRAPHY

- 7.1. Introduction
- 7.2. Europe
 - 7.2.1. Germany
 - 7.2.2. France
 - 7.2.3. U.K.
 - 7.2.4. Italy
 - 7.2.5. Spain
 - 7.2.6. Rest of Europe (RoE)
- 7.3. North America
 - 7.3.1. U.S.
 - 7.3.2. Canada
- 7.4. Asia-Pacific
 - 7.4.1. China
 - 7.4.2. Japan
 - 7.4.3. India
 - 7.4.4. Rest of Asia-Pacific (RoAPAC)
- 7.5. Latin America
- 7.6. Middle East & Africa

8. COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Key Growth Strategies
- 8.3. Competitive Benchmarking

9. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, AND STRATEGIC DEVELOPMENTS)

- 9.1. Cargill, Incorporated

- 9.2. Koninklijke DSM N.V.
- 9.3. Mitsubishi Chemical Holdings Corporation
- 9.4. BASF SE
- 9.5. DuPont de Nemours, Inc.
- 9.6. Braskem SA
- 9.7. Aemetis, Inc.
- 9.8. Evonik Industries AG
- 9.9. SECOS Group Limited

10. APPENDIX

- 10.1. Questionnaire
- 10.2. Available Customization

List Of Tables

LIST OF TABLES

- Table 1 Global Green Chemicals Market Drivers: Impact Analysis (2022–2029)
- Table 2 Global Green Chemicals Market Restraints: Impact Analysis (2022–2029)
- Table 3 Nominal Average Selling Prices of Commodities, 2015–2020 (USD/Tonne)
- Table 4 Global Green Chemicals Market Size, by Product, 2020–2029 (USD Million)
- Table 5 Global Bio-alcohols Market Size, by Type, 2020–2029 (USD Million)
- Table 6 Bio-alcohols Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 7 Bio-ethanol Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 8 Bio-butanol Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 9 Bio-methanol Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 10 Other Bio-alcohols Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 11 Global Bio-organic Acid Market Size, by Type, 2020–2029 (USD Million)
- Table 12 Bio-organic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 13 Bio-lactic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 14 Bio-acetic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 15 Bio-citric Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 16 Bio-adipic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 17 Bio- acrylic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 18 Bio-succinic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 19 Other Bio-organic Acid Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 20 Bio-ketone Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 21 Global Bio-polymers Market Size, by Type, 2020–2029 (USD Million)
- Table 22 Bio-polymers Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 23 Bio- polylactic Acid (PLA) Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 24 Bio-polyethylene Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 25 Other Bio-polymers Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 26 Other Green Chemicals Market Size, by Country/Region, 2020–2029 (USD Million)
- Table 27 Global Green Chemicals Market Size, by Application, 2020–2029 (USD Million)
- Table 28 Green Chemicals Market Size for Industrial & Chemicals, by Country/Region, 2020–2029 (USD Million)
- Table 29 Green Chemicals Market Size Pharmaceuticals, by Country/Region, 2020–2029 (USD Million)

Table 30 Green Chemicals Market Size Packaging, by Country/Region, 2020–2029 (USD Million)

Table 31 Green Chemicals Market Size Food and Beverages, by Country/Region, 2020–2029 (USD Million)

Table 32 Green Chemicals Market Size Construction, by Country/Region, 2020–2029 (USD Million)

Table 33 Green Chemicals Market Size Automotive, by Country/Region, 2020–2029 (USD Million)

Table 34 Green Chemicals Market Size for Other Applications, by Country/Region, 2020–2029 (USD Million)

Table 35 Global Green Chemicals Market Size, by Region, 2020–2029 (USD Million)

Table 36 Europe: Green Chemicals Market Size, by Country/Region, 2020–2029 (USD Million)

Table 37 Europe: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 38 Europe: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 39 Europe: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 40 Europe: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 41 Europe: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 42 Germany: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 43 Germany: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 44 Germany: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 45 Germany: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 46 Germany: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 47 France: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 48 France: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 49 France: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 50 France: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 51 France: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 52 U.K.: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 53 U.K.: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 54 U.K.: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 55 U.K.: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 56 U.K.: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 57 Italy: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 58 Italy: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 59 Italy: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 60 Italy: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 61 Italy: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 62 Spain: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 63 Spain: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 64 Spain: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 65 Spain: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 66 Spain: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 67 RoE: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 68 RoE: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 69 RoE: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 70 RoE: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 71 RoE: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 72 North America: Green Chemicals Market Size, by Country, 2020–2029 (USD Million)

Table 73 North America: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 74 North America: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 75 North America: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 76 North America: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 77 North America: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 78 U.S.: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 79 U.S.: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 80 U.S.: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 81 U.S.: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 82 U.S.: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 83 Canada: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 84 Canada: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 85 Canada: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 86 Canada: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 87 Canada: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 88 Asia-Pacific: Green Chemicals Market Size, by Country, 2020–2029 (USD Million)

Table 89 Asia-Pacific: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 90 Asia-Pacific: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 91 Asia-Pacific: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 92 Asia-Pacific: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 93 Asia-Pacific: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 94 China: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 95 China: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029

(USD Million)

Table 96 China: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029

(USD Million)

Table 97 China: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 98 China: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 99 Japan: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 100 Japan: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 101 Japan: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 102 Japan: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 103 Japan: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 104 India: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 105 India: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 106 India: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 107 India: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 108 India: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 109 RoAPAC: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 110 RoAPAC: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 111 RoAPAC: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 112 RoAPAC: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 113 RoAPAC: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 114 Latin America: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 115 Latin America: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 116 Latin America: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 117 Latin America: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 118 Latin America: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 119 Middle East & Africa: Green Chemicals Market Size, by Product, 2020–2029 (USD Million)

Table 120 Middle East & Africa: Green Chemicals Market Size for Bio-alcohols, by Type, 2020–2029 (USD Million)

Table 121 Middle East & Africa: Green Chemicals Market Size for Bio-polymers, by Type, 2020–2029 (USD Million)

Table 122 Middle East & Africa: Green Chemicals Market Size for Bio-organic Acids, by Type, 2020–2029 (USD Million)

Table 123 Middle East & Africa: Green Chemicals Market Size, by Application, 2020–2029 (USD Million)

Table 124 Total Number of Recent Developments, by Company, 2019–2022

List Of Figures

LIST OF FIGURES

Figure 1 Research Process

Figure 2 Key Secondary Sources

Figure 3 Primary Research Techniques

Figure 4 Key Executives Interviewed

Figure 5 Breakdown of Primary Interviews (Supply-side & Demand-side)

Figure 6 Market Sizing and Growth forecast Approach

Figure 7 In 2022, the Bio-alcohols Segment is Expected to Account for the Largest Share of the Market

Figure 8 In 2022, the Industrial & Chemical Segment is Expected to Account for the Largest Share of the Market

Figure 9 In 2022, Europe to Account for the Largest Share of the Green Chemicals Market

Figure 10 Market Dynamics

Figure 11 Global Green Chemicals Market Size, by Product, 2022 Vs. 2029 (USD Million)

Figure 12 Global Bio-alcohols Market Size, by Type, 2022 Vs. 2029 (USD Million)

Figure 13 Global Bio-organic Acid Market Size, by Type, 2022 Vs. 2029 (USD Million)

Figure 14 Global Bio-polymers Market Size, by Type, 2022 Vs. 2029 (USD Million)

Figure 15 Global Green Chemicals Market Size, by Application, 2022-2029 (USD Million)

Figure 16 Green Chemicals Market Size, by Region, 2022 Vs. 2029 (USD Million)

Figure 17 Key Growth Strategies Adopted by Leading Players, 2019–2022

Figure 18 Global Green Chemicals Market: Competitive Benchmarking, by Product

Figure 19 Cargill, Incorporated: Financial Overview (2021)

Figure 20 Koninklijke DSM N.V: Financial Overview (2021)

Figure 21 Mitsubishi Chemical Holdings Corporation.: Financial Overview (2021)

Figure 22 BASF SE: Financial Overview (2021)

Figure 23 DuPont de Nemours, Inc.: Financial Overview (2021)

Figure 24 Braskem SA: Financial Overview (2021)

Figure 25 Aemetis, Inc.: Financial Overview (2021)

Figure 26 Evonik Industries AG: Financial Overview (2021)

Figure 27 SECOS Group Limited: Financial Overview (2021)

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