

GLOBAL BIO-BASED CHEMICALS MARKET FORECAST 2018-2026

<https://marketpublishers.com/r/G40AC77E22FEN.html>

Date: May 2018

Pages: 158

Price: US\$ 2,500.00 (Single User License)

ID: G40AC77E22FEN

Abstracts

KEY FINDINGS

The market for bio-based chemical is anticipated to grow at a CAGR of 16.53% over the forecast period of 2018-2026. The numerous government policies towards business sustainability programs, preference for the usage of the eco-friendly product among the end users, intensive fluctuations in the crude oil prices, and the high market probable of bio-based chemical products are some of the major drivers responsible for the boom in the bio-based chemical market.

MARKET INSIGHTS

The bio-based markets can be segmented on the basis of the type of products and on the basis of applications. The varied types of products include biodegradable and non-biodegradable bioplastics and different kinds of biofuels. Although the biofuels market, which comprises of biodiesel, biogas, and solid biomass, generated the highest revenue in 2017, it is the bioplastics market which is anticipated to grow at a faster CAGR during the forecast period. The application segment can be further sub-divided into various areas like industrial chemicals, agriculture, pharmaceuticals, food products etc. The industrial chemicals that include succinic acid, industrial alcohol, bio-based dyes, lactic acid, glycerol, acrylic acid and others, is the application which is currently dominating the global bio-based chemical market.

REGIONAL INSIGHTS

Asia-Pacific region currently holds the biggest market for the bio-based chemicals, accounting for xx% share of the total market. The demand for the bio-based chemicals

from this region is expected to further rise during the forecasted years. The European bio-based chemicals market is the second-largest bio-based chemicals market in the world. Italy currently dominates this market. However, it is the North American market which is expected to show the highest growth in CAGR over the forecast period owing to a shift in consumer perception towards more eco-friendly products.

COMPETITIVE INSIGHTS

The major players in the market include Abengoa Bioenergia S.A., BioAmber Inc., Braskem, Cargill, Incorporated, CORBION, Meredian Inc., Metabolix Inc., Methanex Corporation, Myriant Technologies LLC, NatureWorks, Novozymes ASS, Royal DSM, Synbra, Teijin and Zhejiang Hisun Biomaterials Co., Ltd.

Contents

1. RESEARCH SCOPE

- 1.1. STUDY GOALS
- 1.2. SCOPE OF THE MARKET STUDY
- 1.3. WHO WILL FIND THIS REPORT USEFUL?
- 1.4. STUDY AND FORECASTING YEARS

2. RESEARCH METHODOLOGY

- 2.1. SOURCES OF DATA
 - 2.1.1. SECONDARY DATA
 - 2.1.2. PRIMARY DATA
- 2.2. TOP DOWN APPROACH
- 2.3. BOTTOM-UP APPROACH
- 2.4. DATA TRIANGULATION

3. EXECUTIVE SUMMARY

- 3.1. MARKET SUMMARY
- 3.2. KEY FINDINGS
 - 3.2.1. ASIA PACIFIC IS THE LARGEST BIO-BASED CHEMICALS MARKET
 - 3.2.2. AGRICULTURE TO BE THE FASTEST GROWING SEGMENT OF THE MARKET
 - 3.2.3. BIOFUELS TO BE THE MARKET LEADER IN TERMS OF PRODUCTS SEGMENT
 - 3.2.4. GROWING INTEREST IN CLEAN & ALTERNATIVE FUEL

4. MARKET DYNAMICS

- 4.1. MARKET DEFINITION
- 4.2. MARKET DRIVERS
 - 4.2.1. GOVERNMENT POLICIES TOWARDS BUSINESS SUSTAINABILITY PROGRAMS
 - 4.2.2. INTENSIVE FLUCTUATIONS IN THE CRUDE OIL PRICES
 - 4.2.3. USAGE OF ECO-FRIENDLY PRODUCT
 - 4.2.4. HIGH MARKET PROBABLE OF BIO-BASED CHEMICAL PRODUCTS
- 4.3. MARKET RESTRAINTS

- 4.3.1. DEARTH OF SUPPLY CHAIN IN FEEDSTOCK AND RAW MATERIALS
- 4.3.2. LOW ACCEPTANCE LEVEL IN BIOPESTICIDES
- 4.4. MARKET OPPORTUNITIES
 - 4.4.1. ESCALATING DEMAND OF BIO-BASED PRODUCTS AMONGST THE END USERS
 - 4.4.2. INCREASE IN TECHNOLOGICAL ADVANCEMENTS FOR BIOREFINING
 - 4.4.3. INCREASED INVESTMENTS IN BIOFUELS & BIODIESEL MARKET
- 4.5. MARKET CHALLENGES
 - 4.5.1. HIGHER PRICE OF BIO-BASED CHEMICALS
 - 4.5.2. FOOD SAFETY DUE TO SIGNIFICANT CLIMATE CHANGE

5. MARKET BY PRODUCTS

- 5.1. BIOPLASTICS
 - 5.1.1. BIO-DEGRADABLE PLASTICS
 - 5.1.1.1. PLA
 - 5.1.1.2. PHA
 - 5.1.1.3. REGENERATED CELLULOSE
 - 5.1.1.4. BIO-DEGRADABLE POLYESTERS
 - 5.1.1.5. OTHERS
 - 5.1.2. NON-BIODEGRADABLE BIOPLASTICS
 - 5.1.2.1. BIO-PET
 - 5.1.2.2. BIO-PE
 - 5.1.2.3. BIO-PA
 - 5.1.2.4. OTHERS
- 5.2. BIO-FUEL
 - 5.2.1. BIO-DIESEL
 - 5.2.2. BIO-GAS
 - 5.2.3. SOLID BIOMASS

6. MARKET BY APPLICATION

- 6.1. INDUSTRIAL CHEMICALS
 - 6.1.1. SUCCINIC ACID
 - 6.1.2. ALCOHOLS
 - 6.1.3. BIO-BASED DYES
 - 6.1.4. LACTIC ACID
 - 6.1.5. GLYCEROL
 - 6.1.6. ACRYLIC ACID

- 6.1.7. OTHER CHEMICALS
- 6.2. PHARMACEUTICALS
 - 6.2.1. ENZYMES
 - 6.2.2. AMINO ACID
 - 6.2.3. VITAMINS AND RELATED COMPOUNDS
 - 6.2.4. ANTIBIOTICS
 - 6.2.5. OTHERS
- 6.3. FOOD PRODUCTS
 - 6.3.1. ALCOHOLIC BEVERAGES
 - 6.3.2. OTHERS
- 6.4. AGRICULTURE
 - 6.4.1. BIO-FERTILIZERS
 - 6.4.2. BIO-PESTICIDES
 - 6.4.3. OTHERS

7. KEY ANALYTICS

- 7.1. PORTER'S 5 FORCES ANALYSIS
 - 7.1.1. THREAT OF NEW ENTRANTS
 - 7.1.2. THREAT OF SUBSTITUTE PRODUCTS OR SERVICES
 - 7.1.3. BARGAINING POWER OF BUYERS.
 - 7.1.4. BARGAINING POWER OF SUPPLIERS
 - 7.1.5. INTENSITY OF COMPETITIVE RIVALRY
- 7.2. OPPORTUNITY MATRIX
- 7.3. VENDOR LANDSCAPE
- 7.4. MARKET TRENDS OF BIO-BASED CHEMICALS
 - 7.4.1. BIO-BASED CHEMICALS MARKET, HISTORY AND PERFORMANCE
 - 7.4.2. RECENT DEVELOPMENTS
 - 7.4.3. FUTURE OF BIO-BASED CHEMICALS (PREDICTIVE ANALYSIS)
- 7.5. MARKET SHIFT FROM CONVENTIONAL CHEMICAL TO BIO-BASED CHEMICALS
 - 7.5.1. ENVIRONMENTAL CONCERN
 - 7.5.2. HIGH PRICES OF CRUDE OIL
 - 7.5.3. POPULARITY
 - 7.5.4. INCREASING POPULATION
- 7.6. KEY BUYING CRITERIA
 - 7.6.1. PRICE
 - 7.6.2. AVAILABILITY
 - 7.6.3. OBJECTIVES

- 7.6.4. ALTERNATIVES
- 7.6.5. ENVIRONMENTAL CONCERN

8. GEOGRAPHICAL ANALYSIS

- 8.1. NORTH AMERICA
 - 8.1.1. UNITED STATES
 - 8.1.2. CANADA
- 8.2. EUROPE
 - 8.2.1. UNITED KINGDOM
 - 8.2.2. FRANCE
 - 8.2.3. GERMANY
 - 8.2.4. ITALY
 - 8.2.5. SPAIN
 - 8.2.6. NETHERLANDS
 - 8.2.7. REST OF EUROPE
- 8.3. ASIA PACIFIC
 - 8.3.1. CHINA
 - 8.3.2. JAPAN
 - 8.3.3. INDIA
 - 8.3.4. THAILAND
 - 8.3.5. SOUTH KOREA
 - 8.3.6. REST OF ASIA PACIFIC
- 8.4. REST OF WORLD
 - 8.4.1. LATIN AMERICA
 - 8.4.2. AFRICA
 - 8.4.3. MIDDLE EAST

9. COMPETITIVE LANDSCAPE

- 9.1. MARKET SHARE ANALYSIS
- 9.2. COMPANY PROFILES
 - 9.2.1. ABENGOA BIOENERGIA, S.A.
 - 9.2.2. BASF SE
 - 9.2.3. BIOAMBER, INC.
 - 9.2.4. BRASKEM
 - 9.2.5. CARGILL, INC.
 - 9.2.6. CORBION N.V. (PURAC)
 - 9.2.7. DANIMER SCIENTIFIC, INC.

- 9.2.8. METHANEX CORPORATION
- 9.2.9. MITSUBISHI CHEMICAL CORPORATION
- 9.2.10. MITSUI & CO., LTD.
- 9.2.11. MYRIANT CORPORATION
- 9.2.12. NATUREWORKS
- 9.2.13. NOVOZYMES A/S
- 9.2.14. PTT GLOBAL CHEMICAL
- 9.2.15. ROYAL DSM
- 9.2.16. SYNBRA
- 9.2.17. TEIJIN LIMITED
- 9.2.18. YIELD10 BIOSCIENCE, INC.
- 9.2.19. ZHEJIANG HISUN BIOMATERIALS CO LTD

List Of Tables

LIST OF TABLES

TABLE 1: GLOBAL BIO-BASED CHEMICALS MARKET, BY GEOGRAPHY, 2018-2026
(IN \$ MILLION)

TABLE 2: VARIOUS INITIATIVES TAKEN BY DIFFERENT COUNTRIES

TABLE 3: MARKET POTENTIAL IN TERMS OF CHEMICAL BY VARIOUS
COMPANIES

TABLE 4: WORLDWIDE BIO-BASED CHEMICALS MARKET PENETRATION
2010-2025

TABLE 5: BIO-BASED PRODUCTION LEVEL FOR BIO-BASED PRODUCTS

TABLE 6: GLOBAL BIO-BASED CHEMICALS MARKET, BY PRODUCTS, 2018-2026
(IN \$ MILLION)

TABLE 7: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIOPLASTICS, 2018-2026
(IN \$ MILLION)

TABLE 8: GLOBAL BIOPLASTICS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 9: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO-DEGRADABLE
PLASTICS, 2018-2026 (IN \$ MILLION)

TABLE 10: GLOBAL BIO-DEGRADABLE PLASTICS MARKET, BY REGION,
2018-2026 (IN \$ MILLION)

TABLE 11: GLOBAL PLA MARKET, BY REGION 2018-2026 (IN \$ MILLION)

TABLE 12: GLOBAL PHA MARKET. BY REGION 2018-2026 (IN \$ MILLION)

TABLE 13: GLOBAL REGENERATED CELLULOSE MARKET, BY REGION 2018-2026
(IN \$ MILLION)

TABLE 14: GLOBAL BIO-DEGRADABLE POLYESTERS MARKET, BY REGION
2018-2026 (IN \$ MILLION)

TABLE 15: AVERAGE BIOMASS CONTENT FOR THE SELECTED BIO-BASED
POLYMERS

TABLE 16: GLOBAL OTHER BIO-DEGRADABLE PLASTICS MARKET, BY REGION
2018-2026 (IN \$ MILLION)

TABLE 17: GLOBAL BIO-BASED CHEMICALS MARKET, BY NON-BIODEGRADABLE
PLASTICS, 2018-2026 (IN \$ MILLION)

TABLE 18: GLOBAL NON-BIODEGRADABLE PLASTICS MARKET, BY REGION,
2018-2026 (IN \$ MILLION)

TABLE 19: GLOBAL BIO PET MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 20: GLOBAL BIO PE MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 21: GLOBAL BIO PA MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 22: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO-FUELS 2018-2026

(IN \$ MILLION)

TABLE 23: GLOBAL BIO-FUELS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 24: GLOBAL BIO-DIESEL MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 25: GLOBAL BIO-GAS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 26: ENERGY DENSITY OF DENSE FUELS

TABLE 27: GLOBAL SOLID BIOMASS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 28: GLOBAL BIO-BASED CHEMICALS MARKET, BY APPLICATION, 2018-2026 (IN \$ MILLION)

TABLE 29: GLOBAL BIO-BASED CHEMICALS MARKET, BY INDUSTRIAL CHEMICALS 2018-2026 (IN \$ MILLION)

TABLE 30: GLOBAL INDUSTRIAL CHEMICALS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 31: APPLICATIONS OF GLYCEROL

TABLE 32: GLOBAL BIO-BASED CHEMICALS MARKET, BY PHARMACEUTICALS 2018-2026 (IN \$ MILLION)

TABLE 33: GLOBAL PHARMACEUTICALS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 34: APPLICATION OF AMINO ACIDS

TABLE 35: GLOBAL BIO-BASED CHEMICALS MARKET, BY FOOD PRODUCTS 2018-2026 (IN \$ MILLION)

TABLE 36: GLOBAL FOOD PRODUCTS MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 37: CATEGORIES OF ALCOHOLIC BEVERAGES

TABLE 38: GLOBAL BIO-BASED CHEMICALS MARKET, BY AGRICULTURE 2018-2026 (IN \$ MILLION)

TABLE 39: GLOBAL AGRICULTURE MARKET, BY REGION, 2018-2026 (IN \$ MILLION)

TABLE 40: INSTANCES OF BIO-FERTILIZERS

TABLE 41: BENEFITS OF BIO-PESTICIDES AND ITS FACTORS

TABLE 42: REGISTRATION OF BIOPESTICIDES IN 2015

TABLE 43: GLOBAL BIO-BASED CHEMICALS MARKET, BY GEOGRAPHY, 2018-2026 (IN \$ MILLION)

TABLE 44: NORTH AMERICA BIO-BASED CHEMICALS MARKET, BY COUNTRY, 2018-2026 (IN \$ MILLION)

TABLE 45: INCENTIVE RATE FOR BIOFUEL IN CANADA

TABLE 46: EUROPE BIO-BASED CHEMICALS MARKET, BY COUNTRY, 2018-2026 (IN \$ MILLION)

TABLE 47: BIOPLASTICS IN UNITED KINGDOM BY END USERS 2016 (IN TONS)

TABLE 48: ASIA PACIFIC BIO-BASED CHEMICALS MARKET, BY COUNTRY,
2018-2026 (IN \$ MILLION)

TABLE 49: SUPPLIERS OF BIODIESEL IN JAPAN

TABLE 50: REST OF THE WORLD BIO-BASED CHEMICALS MARKET, BY REGION,
2018-2026 (IN \$ MILLION)

List Of Figures

LIST OF FIGURES

FIGURE 1: GLOBAL BIO-BASED CHEMICALS MARKET, BY APPLICATION, 2017 & 2026 (IN %)

FIGURE 2: ASIA PACIFIC BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLIONS)

FIGURE 3: WORLDWIDE CRUDE OIL PRICE TREND ESTIMATE AND FORECAST, 2009 – 2018 (\$/BARREL)

FIGURE 4: WORLDWIDE PRODUCTION CAPABILITY OF BIOPLASTICS IN 2016, BY REGION

FIGURE 5: WORLDWIDE MANUFACTURE CAPABILITY OF BIO-PLASTICS (IN 1,000 TONS)

FIGURE 6: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO-PLASTICS 2018-2026 (IN \$ MILLION)

FIGURE 7: BIO-PLASTICS CONSUMPTION ACROSS REGIONS, 2015 & 2016 (METRIC TON)

FIGURE 8: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIODEGRADABLE PLASTICS 2018-2026 (IN \$ MILLION)

FIGURE 9: BIODEGRADABLE PLASTIC CONSUMPTION 2015 & 2016 (METRIC TON)

FIGURE 10: GLOBAL BIO-BASED CHEMICALS MARKET, BY PLA 2018-2026 (IN \$ MILLION)

FIGURE 11: PLA CONSUMPTION ACROSS REGION 2015 & 2016 (METRIC TON)

FIGURE 12: GLOBAL BIO-BASED CHEMICALS MARKET, BY PHA 2018-2026 (IN \$ MILLION)

FIGURE 13: PHA CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 14: GLOBAL BIO-BASED CHEMICALS MARKET, BY REGENERATED CELLULOSE 2018-2026 (IN \$ MILLION)

FIGURE 15: REGENERATED CELLULOSE CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 16: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIODEGRADABLE POLYESTER 2018-2026 (IN \$ MILLION)

FIGURE 17: BIODEGRADABLE POLYESTERS CONSUMPTION 2015 & 2016 (METRIC TON)

FIGURE 18: GLOBAL BIO-BASED CHEMICALS MARKET, BY OTHER BIODEGRADABLE PLASTICS, 2018-2026 (IN \$ MILLION)

FIGURE 19: OTHER BIO-DEGRADABLE PLASTICS CONSUMPTION BY REGION

2015 & 2016 (METRIC TON)

FIGURE 20: APPLICATION OF NON-BIODEGRADABLE PLASTICS 2016

FIGURE 21: GLOBAL BIO-BASED CHEMICALS MARKET, BY NON-BIODEGRADABLE PLASTICS 2018-2026 (IN \$ MILLION)

FIGURE 22: GLOBAL NON-BIODEGRADABLE PLASTICS CONSUMPTION BY TYPE 2015 & 2016 (METRIC TON)

FIGURE 23: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO PET 2018-2026 (IN \$ MILLION)

FIGURE 24: BIO-PET CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 25: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO PE 2018-2026 (IN \$ MILLION)

FIGURE 26: BIO-PE CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 27: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO PA 2018-2026 (IN \$ MILLION)

FIGURE 28: BIO PA CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 29: GLOBAL BIO-BASED CHEMICALS MARKET, BY OTHERS NON-BIODEGRADABLE PLASTICS 2018-2026 (IN \$ MILLION)

FIGURE 30: OTHER NON-BIODEGRADABLE BIO-PLASTICS CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 31: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO-FUEL 2018-2026 (IN \$ MILLION)

FIGURE 32: BIOFUEL CONSUMPTION BY TYPE 2015 & 2016 (METRIC TON)

FIGURE 33: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIODIESEL 2018-2026 (IN \$ MILLION)

FIGURE 34: BIODIESEL CONSUMPTION BY REGION 2015 & 2016 (METRIC TONS)

FIGURE 35: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIOGAS 2018-2026 (IN \$ MILLION)

FIGURE 36: BIOGAS CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 37: GLOBAL BIO-BASED CHEMICALS MARKET, BY SOLID BIOMASS 2014-2024 (IN \$ MILLION)

FIGURE 38: SOLID BIOMASS CONSUMPTION BY REGION 2015 & 2016 (METRIC TON)

FIGURE 39: GLOBAL BIO-BASED CHEMICALS MARKET, BY INDUSTRIAL CHEMICALS 2018-2026 (IN \$ MILLION)

FIGURE 40: GLOBAL BIO-BASED CHEMICALS MARKET, BY SUCCINIC ACID 2018-2026 (IN \$ MILLION)

FIGURE 41: GLOBAL BIO-BASED CHEMICALS MARKET, BY INDUSTRIAL ALCOHOL 2018-2026 (IN \$ MILLION)

FIGURE 42: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIO-BASED DYES

2018-2026 (IN \$ MILLION)

FIGURE 43: APPLICATIONS OF LACTIC ACID

FIGURE 44: GLOBAL BIO-BASED CHEMICALS MARKET, BY LACTIC ACID

2018-2026 (IN \$ MILLION)

FIGURE 45: GLOBAL BIO-BASED CHEMICALS MARKET, BY GLYCEROL 2018-2026
(IN \$ MILLION)

FIGURE 46: END-USERS FOR ACRYLATE ESTERS IN THE UNITED STATES

FIGURE 47: GLOBAL BIO-BASED CHEMICALS MARKET, BY ACRYLIC ACID

2018-2026 (IN \$ MILLION)

FIGURE 48: GLOBAL BIO-BASED CHEMICALS MARKET, BY OTHER INDUSTRIAL
CHEMICALS 2018-2026 (IN \$ MILLION)

FIGURE 49: GLOBAL BIO-BASED CHEMICALS MARKET, BY PHARMACEUTICALS
2018-2026 (IN \$ MILLION)

FIGURE 50: APPLICATION OF ENZYMES IN VARIOUS AREAS

FIGURE 51: GLOBAL BIO-BASED CHEMICALS MARKET, BY ENZYMES 2018-2026
(IN \$ MILLION)

FIGURE 52: GLOBAL BIO-BASED CHEMICALS MARKET, BY AMINO ACIDS
2018-2026 (IN \$ MILLION)

FIGURE 53: GLOBAL BIO-BASED CHEMICALS MARKET, BY VITAMINS AND
RELATED COMPOUNDS 2018-2026 (IN \$ MILLION)

FIGURE 54: GLOBAL BIO-BASED CHEMICALS MARKET, BY ANTIBIOTICS
2018-2026 (IN \$ MILLION)

FIGURE 55: GLOBAL BIO-BASED CHEMICALS MARKET, BY OTHER CHEMICALS
2018-2026 (IN \$ MILLION)

FIGURE 56: GLOBAL BIO-BASED CHEMICALS MARKET, BY FOOD PRODUCTS
2018-2026 (IN \$ MILLION)

FIGURE 57: GLOBAL BIO-BASED CHEMICALS MARKET, BY ALCOHOLIC
BEVERAGES 2018-2026 (IN \$ MILLION)

FIGURE 58: GLOBAL BIO-BASED CHEMICALS MARKET, BY OTHER CHEMICALS
2018-2026 (IN \$ MILLION)

FIGURE 59: GLOBAL BIO-BASED CHEMICALS MARKET, BY AGRICULTURE
2018-2026 (IN \$ MILLION)

FIGURE 60: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIOFERTILIZERS
2018-2026 (IN \$ MILLION)

FIGURE 61: GLOBAL BIO-BASED CHEMICALS MARKET, BY BIOPESTICIDES
2018-2026 (IN \$ MILLION)

FIGURE 62: GLOBAL BIO-BASED CHEMICALS MARKET, BY OTHER CHEMICALS
2018-2026 (IN \$ MILLION)

FIGURE 63: PORTER'S FIVE FORCE ANALYSIS

FIGURE 64: FACTORS LEADING TO THE SHIFT FROM CONVENTIONAL TO BIO-BASED CHEMICALS ADOPTION

FIGURE 65: KEY BUYING IMPACT ANALYSIS

FIGURE 66: GLOBAL BIO-BASED CHEMICALS MARKET, REGIONAL OUTLOOK, 2017 & 2026 (IN %)

FIGURE 67: UNITED STATES. BIO-BASED CHEMICALS MARKET 2018-2026 (IN \$ MILLION)

FIGURE 68: PRODUCTION OF SUGAR, BEET, CORN, SUGARCANE IN U.S. (MILLION TONS)

FIGURE 69: CANADA BIO-BASED CHEMICALS MARKET 2018-2026 (IN \$ MILLION)

FIGURE 70: UNITED KINGDOM BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 71: FRANCE BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 72: GERMANY BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 73: SUPPLY OF ENERGY IN GERMANY FROM RENEWABLE SOURCES IN 2016

FIGURE 74: ITALY BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 75: SPAIN BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 76: NETHERLAND BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 77: REST OF EUROPE BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 78: CHINA BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 79: JAPAN BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 80: INDIA BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 81: THAILAND BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 82: SOUTH KOREA BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 83: REST OF ASIA PACIFIC BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 84: LATIN AMERICA BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 85: AFRICA BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 86: MIDDLE EAST BIO-BASED CHEMICALS MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 87: MARKET SHARE ANALYSIS IN 2017 (IN %)

COMPANIES MENTIONED

1. ABENGOA BIOENERGIA, S.A.
2. BASF SE
3. BIOAMBER, INC.
4. BRASKEM
5. CARGILL, INC.
6. CORBION N.V. (PURAC)
7. DANIMER SCIENTIFIC INC
8. METHANEX CORPORATION
9. MITSUBISHI CHEMICAL CORPORATION
10. MITSUI & CO., LTD
11. MYRIANT CORPORATION
12. NATUREWORKS
13. NOVOZYMES A/S
14. PTT GLOBAL CHEMICAL
15. ROYAL DSM
16. SYNBRA
17. TEIJIN LIMITED
18. YIELD10 BIOSCIENCE, INC.
19. ZHEJIANG HISUN BIOMATERIALS CO. LTD

I would like to order

Product name: GLOBAL BIO-BASED CHEMICALS MARKET FORECAST 2018-2026

Product link: <https://marketpublishers.com/r/G40AC77E22FEN.html>

Price: US\$ 2,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G40AC77E22FEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970