

Bio Plasticizers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Epoxidized Soybean Oil (ESBO), Castor Oil-Based Plasticizers, Citrates, Succinic Acid, Others), By Application (Packaging Materials, Consumer Goods, Automotive & Transportation, Building & Construction, Textile, Agriculture & Horticulture, Others), By Region and Competition, 2019-2029F

<https://marketpublishers.com/r/B538757933EDEN.html>

Date: May 2024

Pages: 186

Price: US\$ 4,900.00 (Single User License)

ID: B538757933EDEN

Abstracts

Global Bio Plasticizers Market was valued at USD 2.85 billion in 2023 and is anticipated to project steady growth in the forecast period with a CAGR of 4.79% through 2029. Several key factors are driving the growth of the global bio-plasticizers market. Stringent government regulations against the use of phthalate plasticizers due to their potential health hazards have led to an increased demand for bio-plasticizers. This shift towards bio-plasticizers is driven by the need for safer and more eco-friendly alternatives in various industries, including packaging, automotive, and construction.

The growing awareness among consumers about the harmful effects of synthetic plasticizers on human health and the environment is also fueling the demand for bio-plasticizers. As consumers become more conscious of sustainability and environmental impact, they are increasingly opting for products made from bio-based materials. This trend not only contributes to reducing plastic waste but also drives the growth of the bio-plasticizers market.

Also, advancements in technology and extensive research and development (R&D)

activities have led to the development of high-performance bio-plasticizers. These bio-plasticizers offer properties similar to or even better than traditional plasticizers, making them a viable alternative in various applications. The continuous efforts in improving the performance and versatility of bio-plasticizers have further propelled the growth of the market. Despite the positive growth prospects, the global bio-plasticizers market faces several challenges. One of the major challenges is the high cost of bio-plasticizers compared to traditional plasticizers. The production and extraction processes of bio-plasticizers require specialized equipment and resources, which can drive up the production costs. Additionally, the lack of awareness about the benefits of bio-plasticizers, particularly in developing regions, poses a hurdle for market adoption.

These challenges also present opportunities for market players. To overcome the cost barrier, there is a need for the development of cost-effective production methods that can streamline the manufacturing process of bio-plasticizers. Moreover, increased efforts to raise awareness about the benefits of bio-plasticizers, such as their low toxicity and biodegradability, can help drive market growth. Education and information campaigns can play a crucial role in promoting the adoption of bio-plasticizers and creating a sustainable future for the plastics industry.

Key Market Drivers

Growing Demand of Bio-Plasticizers in Automotive Industry

Bio-plasticizers are organic compounds that serve as additives to enhance the flexibility, workability, and volatility of polymers and various other materials. Within the automotive industry, these bio-plasticizers play a crucial role in the production of numerous components, including dashboards, interiors, wire coatings, and under-the-hood parts.

The increasing demand for bio-plasticizers in the automotive sector can be attributed to several factors. Stringent government regulations implemented worldwide are compelling automakers to reduce the environmental impact of their operations and products. Consequently, there has been a notable shift away from the usage of traditional phthalate plasticizers, as they have been associated with potential health hazards. Instead, the industry is adopting more sustainable alternatives like bio-plasticizers, which align with the growing focus on eco-friendly solutions.

There has been a significant shift in consumer behavior. Modern consumers are

increasingly environmentally conscious, seeking products that are not only functional but also eco-friendly. This trend is particularly evident in the automotive industry, where there is a rising demand for vehicles made from bio-based materials. As a result, the demand for bio-plasticizers in the automotive sector continues to grow.

This increasing demand for bio-plasticizers in the automotive industry is not only shaping the industry itself but also having a substantial impact on the global bio-plasticizers market. It is driving market growth, fostering innovation, and encouraging advancements in technology. The automotive sector's commitment to sustainability and the adoption of bio-plasticizers are paving the way for a greener and more environmentally friendly future.

Growing Demand of Bio-Plasticizers in Construction Industry

Bio-plasticizers are organic compounds that are added to polymers and other materials to enhance their flexibility, softness, workability, and volatility. These eco-friendly additives have found extensive use in various applications within the construction industry, including vinyl flooring, wall coverings, roofing membranes, and sealants.

The growing demand for bio-plasticizers in the construction industry can be attributed to several factors. Stringent environmental regulations around the world are driving industry players to explore sustainable alternatives to traditional building materials. This shift away from phthalate plasticizers, which are associated with potential health risks, towards safer and more environmentally friendly options like bio-plasticizers is gaining momentum.

There is a noticeable change in consumer attitude. Today's consumers are increasingly conscious of the environmental impact of their choices, including the buildings they inhabit. This shift in mindset is translating into the construction industry, where there is a rising demand for structures built using bio-based materials. Consumers are actively seeking environmentally friendly options that align with their values.

The increasing demand for bio-plasticizers within the construction industry is significantly impacting the global bio-plasticizers market. This demand is driving market growth and stimulating innovation and technological advancements in the field. Manufacturers and researchers are continuously exploring new bio-based alternatives and refining existing products to meet the evolving needs of the industry and the demands of environmentally conscious consumers.

The adoption of bio-plasticizers in the construction industry is not only addressing environmental concerns but also driving positive change and shaping the future of sustainable construction practices.

Key Market Challenges

Volatility in Availability of Raw Materials

Bio-plasticizers are organic compounds used to enhance the flexibility, workability, and volatility of polymers and other materials. They are typically derived from renewable resources such as vegetable oils, starch, and other plant-based materials. These raw materials play a critical role in the manufacture of bio-plasticizers, directly influencing their quality, performance, and cost.

One of the advantages of using bio-plasticizers is their positive environmental impact. Unlike traditional plasticizers, which are often derived from fossil fuels, bio-plasticizers are made from renewable resources. This means that their production has a lower carbon footprint and contributes to sustainability efforts. Additionally, the use of bio-plasticizers promotes the development of a circular economy, as they can be derived from waste or by-products of other industries.

However, the availability of these raw materials is subject to various factors, including agricultural production, weather conditions, and geopolitical issues, which can cause significant fluctuations in their supply. This volatility poses a considerable challenge for the bio-plasticizers market.

Inconsistent availability can lead to production disruptions, affecting the ability of manufacturers to meet market demand. This can result in lost sales opportunities and potential damage to business relationships. To mitigate this risk, manufacturers may need to establish alternative supply chains or invest in research and development to find substitute raw materials.

Fluctuations in raw material availability can lead to price volatility. When the supply of raw materials decreases, prices tend to increase, which can squeeze profit margins. Manufacturers may be forced to pass these costs on to consumers, potentially making bio-plasticizers less competitive compared to traditional plasticizers. This highlights the importance of long-term contracts and partnerships with suppliers to ensure a stable supply of raw materials at reasonable prices.

While bio-plasticizers offer numerous benefits and contribute to sustainable practices, the industry faces challenges due to the volatile nature of raw material availability. Addressing these challenges requires strategic planning, collaboration with suppliers, and continuous innovation to find alternative sources and improve supply chain resilience.

Key Market Trends

Increasing Demand for Sustainable Alternatives

The increasing demand for sustainable alternatives is primarily fueled by the growing awareness and understanding of the significant environmental impact caused by traditional products and services. As global issues such as climate change, pollution, and resource depletion continue to escalate, the urgency to find sustainable solutions becomes even more pressing.

In response to this global challenge, regulatory policies play a vital role in driving the shift towards sustainability. Governments across the world are implementing stringent regulations and policies aimed at reducing environmental harm. These policies not only serve to protect the planet but also encourage businesses to adopt more sustainable practices, creating a positive ripple effect throughout industries.

Moreover, it is important to acknowledge the changing behavior of today's consumers. With a heightened environmental consciousness, consumers are increasingly prioritizing eco-friendly products and services. They are willing to invest in sustainable alternatives, even if it means paying a premium. The rise of this environmentally conscious consumer segment presents a significant opportunity for businesses to cater to their preferences and capture this growing market.

The demand for sustainable alternatives is driven by a combination of factors. The environmental impact of traditional products and services, coupled with regulatory policies and evolving consumer behavior, has created a need for more sustainable solutions. Embracing sustainability not only benefits the planet but also opens up new opportunities for businesses to thrive in an ever-changing world.

Segmental Insights

Product Insights

Based on the category of product, the epoxidized soybean oil (ESBO) segment emerged as the dominant player in the global market for bi%li%plasticizers in 2023. Epoxidized soybean oil (ESBO) is a widely used plasticizer derived from soybean oil. It is particularly valuable in enhancing the flexibility and durability of plastic materials, especially those made from polyvinyl chloride (PVC), which find extensive application in industries such as construction, packaging, and consumer goods.

The growing demand for ESB%li%can be attributed t%li%several factors. There are increasing environmental concerns surrounding conventional plasticizers, which has prompted the search for more sustainable alternatives. ESBO, being derived from a renewable source like soybean oil, offers a greener and more eco-friendly option.

Health concerns have als%li%played a significant role in driving the demand for ESBO. Traditional plasticizers have been associated with adverse health effects, such as endocrine disruption. In contrast, ESB%li%is considered a safer choice as it does not pose the same risks t%li%human health.

Moreover, regulatory requirements pertaining t%li%conventional plasticizers have further contributed t%li%the surge in ESB%li%demand. Governments and regulatory bodies are imposing stricter regulations on the use of certain types of plasticizers due t%li%their potential adverse effects. As a result, manufacturers are increasingly turning t%li%bio-based alternatives like ESB%li%t%li%comply with these regulations and ensure the safety of their products.

Regional Insights

Asia Pacific emerged as the dominant region in the Global Bi%li%Plasticizers Market in 2023, holding the largest market share in terms of value. The growing construction industry in the Asia-Pacific region is a significant driver for the bi%li%plasticizers market. With the construction sector in this region experiencing rapid growth and urbanization, there is an increasing demand for sustainable and eco-friendly construction materials that align with environmental regulations and consumer preferences. Bi%li%plasticizers, being derived from renewable sources, not only enhance the properties of construction materials but als%li%contribute t%li%reducing their carbon footprint and overall environmental impact. By providing improved flexibility, durability, and workability t%li%concrete, plastics, and other construction materials, bi%li%plasticizers offer a viable solution for meeting the evolving needs of the construction industry in a more sustainable and eco-friendly manner.

Key Market Players

Avient Corporation

BASF SE

Cargill, Incorporated

DIC Corporation

The Dow Chemical Company

Evonik Industries AG

LANXESS AG

Solvay

Matryca S.p.A.

Zhejiangjiayuan Enprotech Stock Co., Ltd.

Report Scope:

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

Biodegradable Plasticizers Market, By Product:

Epoxidized Soybean Oil (ESBO)

Castor Oil-Based Plasticizers

Citrates

Succinic Acid

Others

Bi%li%Plasticizers Market, By Application:

Packaging Materials

Consumer Goods

Automotive & Transportation

Building & Construction

Textile

Agriculture & Horticulture

Others

Bi%li%Plasticizers Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Bi%li%Plasticizers Market.

Available Customizations:

Global Bi%li%Plasticizers Market report with the given market data, Tech Sci Research

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offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. IMPACT OF COVID-19 ON GLOBAL BIO PLASTICIZERS MARKET

5. GLOBAL BIO PLASTICIZERS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product (Epoxidized Soybean Oil (ESBO), Castor Oil-Based Plasticizers, Citrates, Succinic Acid, Others)
 - 5.2.2. By Application (Packaging Materials, Consumer Goods, Automotive &

Transportation, Building & Construction, Textile, Agriculture & Horticulture, Others)

5.2.3. By Region

5.2.4. By Company (2023)

5.3. Market Map

6. ASIA PACIFIC BIO PLASTICIZERS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product

6.2.2. By Application

6.2.3. By Country

6.3. Asia Pacific: Country Analysis

6.3.1. China Bio Plasticizers Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product

6.3.1.2.2. By Application

6.3.2. India Bio Plasticizers Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product

6.3.2.2.2. By Application

6.3.3. Australia Bio Plasticizers Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Product

6.3.3.2.2. By Application

6.3.4. Japan Bio Plasticizers Market Outlook

6.3.4.1. Market Size & Forecast

6.3.4.1.1. By Value

6.3.4.2. Market Share & Forecast

6.3.4.2.1. By Product

6.3.4.2.2. By Application

6.3.5. South Korea Bio Plasticizers Market Outlook

6.3.5.1. Market Size & Forecast

6.3.5.1.1. By Value

6.3.5.2. Market Share & Forecast

6.3.5.2.1. By Product

6.3.5.2.2. By Application

7. EUROPE BIO PLASTICIZERS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product

7.2.2. By Application

7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. France Bio Plasticizers Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Product

7.3.1.2.2. By Application

7.3.2. Germany Bio Plasticizers Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Product

7.3.2.2.2. By Application

7.3.3. Spain Bio Plasticizers Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Product

7.3.3.2.2. By Application

7.3.4. Italy Bio Plasticizers Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Product

7.3.4.2.2. By Application

7.3.5. United Kingdom Bio Plasticizers Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Product

7.3.5.2.2. By Application

8. NORTH AMERICA BIO PLASTICIZERS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product

8.2.2. By Application

8.2.3. By Country

8.3. North America: Country Analysis

8.3.1. United States Bio Plasticizers Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Product

8.3.1.2.2. By Application

8.3.2. Mexico Bio Plasticizers Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Product

8.3.2.2.2. By Application

8.3.3. Canada Bio Plasticizers Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Product

8.3.3.2.2. By Application

9. SOUTH AMERICA BIO PLASTICIZERS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Product

9.2.2. By Application

9.2.3. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Bio Plasticizers Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Product

9.3.1.2.2. By Application

9.3.2. Argentina Bio Plasticizers Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Product

9.3.2.2.2. By Application

9.3.3. Colombia Bio Plasticizers Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Product

9.3.3.2.2. By Application

10. MIDDLE EAST AND AFRICA BIO PLASTICIZERS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product

10.2.2. By Application

10.2.3. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Bio Plasticizers Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Product

10.3.1.2.2. By Application

10.3.2. Saudi Arabia Bio Plasticizers Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Product

10.3.2.2.2. By Application

10.3.3. UAE Bio Plasticizers Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Product

10.3.3.2.2. By Application

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Recent Developments

12.2. Product Launches

12.3. Mergers & Acquisitions

13. GLOBAL BIO PLASTICIZERS MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Product

15. PESTLE ANALYSIS

16. COMPETITIVE LANDSCAPE

- 16.1. Avient Corporation
 - 16.1.1. Business Overview
 - 16.1.2. Company Snapshot
 - 16.1.3. Products & Services
 - 16.1.4. Financials (As Reported)
 - 16.1.5. Recent Developments
- 16.2. BASF SE
- 16.3. Cargill, Incorporated
- 16.4. DIC Corporation
- 16.5. The Dow Chemical Company
- 16.6. Evonik Industries AG
- 16.7. LANXESS AG
- 16.8. Solvay
- 16.9. Matr?ca S.p.A.
- 16.10. Zhejiangjiaao Enprotech Stock Co., Ltd.

17. STRATEGIC RECOMMENDATIONS

18. ABOUT US & DISCLAIMER

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