

# **Biodegradable Plastic Additives Market by Chemistry Type (Bio-based Aromatic, Bio-based Non-aromatic), Type (Bio-based Plasticizers, Bio-based Stabilizers, Bio-based Flame Retardants), End-use Industry, and Region - Global Forecast to 2029**

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## **Abstracts**

In terms of value, the biodegradable plastic additives market is estimated to grow from USD 1.49 billion in 2024 to USD 2.20 billion by 2029, at a CAGR of 8.1%. The single-use plastic biodegradable standards are the leading drivers of the biodegradable plastic additives market because the government has put hard regulations in place against plastic pollution. Single-use plastics such as bags, cutlery, and packaging have already been counted as some of the significant evils causing environmental hazards due to their high non-degradable nature. Regulatory frameworks and standards such as EN 13432, ASTM D6400, and ISO have very specific criteria according to which plastics must meet biodegradability and compostability standards. These standards compel the production of bioplastic additives, which accelerate biodegradation of plastics in their respective environments without leaving adverse residues.

“Bio-based plasticizers type was the largest type of biodegradable plastic additives market, in terms of value, in 2023.”

In 2023, bio-based plasticizers dominated the market share in the biodegradable plastic additives market as renewable origin, eco-friendliness, and improved performance. These plasticizers from natural sources such as vegetable oils and plant-based derivatives are made to provide excellent enhancement in flexibility, durability, and processability of biodegradable plastics without sacrificing biodegradability. Increasing environmental concerns and harsh restrictions on petroleum-based plasticizers have forced their use. Industries like packaging, and consumer goods prefer one of these bio-

based alternatives due to the lower toxicity and carbon footprints that they exhibit.

“Packaging was the fastest growing end-use industry of biodegradable plastic additives market, during forecast period”

The fastest growing segment for the biodegradable plastic additives market is the packaging segment due to the increasing trend of using high quality advanced biodegradable plastic additives. The packaging segment will have the highest speed of growth within the biodegradable plastic additives market due to the further expanding demand for eco-friendly packaging solutions caused by increasing environmental concerns and stringent regulations against single-use plastics. Use of biodegradable plastics by blending additives can prove to be best suited for food, beverage, and e-commerce packaging, as it is the most-preferred option of green alternatives in these areas. A growing emphasis on the importance of eco-friendly packaging as a means of promoting consumer awareness on plastic pollution and business sustainability are swaying consumer preferences more toward the green pack.

“The Asia Pacific is projected to be the fastest-growing region, in terms of value, during the forecast period in the biodegradable plastic additives market.”

The Asia Pacific is estimated to account for the fastest-growing region in the biodegradable plastics additives. The rapid rise industrialization and increasing concern for a clean environment encouraged many governments to implement stringent regulations for reducing the usage of single-use plastics measurement in this region; countries such as China, India, and Japan have instituted measures to help promote more use of eco-friendly materials that will, therefore, increase demand for biodegradable plastics and their additives. Moreover, the ever-increasing population along with the growing consumption of packaged goods, especially among food and beverages as well as consumer products, has led to an increasing need for sustainable alternatives in the region. Moreover, high investments in research and development, as well as the presence of key manufacturers, are contributing to the increasing growth of the region, which really drives the world market.

By Company Type: Tier 1 - 55%, Tier 2 - 25%, and Tier 20%

By Designation: Directors - 50%, Managers - 30%, and Others - 20%

By Region: North America - 40%, Europe - 35%, Asia Pacific - 20%, RoW - 5%,

The key players profiled in the report include Cargill Inc. (US), DIC Corporation (Japan), ADEKA Corporation (Japan), Croda International Plc (UK), Stora Enso (Finland), UPM-Kymmene OYJ (Finland), Clariant AG (Switzerland), Borregaard AS (Norway), Corbion N.V. (Netherlands), Avient Corporation (US), and others.

## Research Coverage

This report segments the market for biodegradable plastic additives based on chemistry type, type, end-use industry, and region and provides estimations of volume (Units) and value (USD Million) for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, services, and key strategies, associated with the market for biodegradable plastic additives.

## Reasons to Buy this Report

This research report is focused on various levels of analysis — industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the biodegradable plastic additives market; high-growth regions; and market drivers, restraints, and opportunities.

The report provides insights on the following pointers:

**Market Penetration:** Comprehensive information on biodegradable plastic additives offered by top players in the global market

**Analysis of key drivers:** (integration with bioplastics growth, biodegradability standards in single-use plastics, focus on food safety and non-toxicity), restraints (lack of established supply chains, limited feedstock availability and competition), opportunities (customization for high-performance applications, government incentives and subsidies), and challenges (competition from fossil-based alternatives) influencing the growth of biodegradable plastic additives market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product launches in the

biodegradable plastic additives market.

**Market Development:** Comprehensive information about lucrative emerging markets — the report analyzes the markets for biodegradable plastic additives across regions.

**Market Diversification:** Exhaustive information about new products, untapped regions, and recent developments in the global biodegradable plastic additives market

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the biodegradable plastic additives market

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