Biodegradable Plastics Market Global Information: by Product Type
(Polyhydroxyalkanoates (PHA), Polylactic Acid (PLA), Polybutylene Succinate (PBS),
Polycaprolactone (PCL), Starch-Based Plastics, Regenerated Cellulose), Application
(Packaging, Agriculture, Injection Molding, Textile, Others) and Region Forecast till
2022

Synopsis of Biodegradable Plastics Market

The global biodegradable plastics market is expected to reach ~16.8 billion by 2022 with CAGR ~8.4% between 2016-2022.

Rising consumer awareness about global warming and government legislation such as banned on plastic bags will increase the demand for biodegradable plastics across the globe. Plastics that decompose to carbon dioxide and water under the actions of microorganisms is known as biodegradable plastics. Biodegradable plastics are produced by fermentation of sugar or canola oil to produce polylactic acid (PLA) or polyhydroxyalkanoates (PHA) which in turn converted into biodegradable plastics.

Biodegradable nature of plastics is expected to be key factors driving the biodegradable plastic market over the forecasted horizon. Increase in awareness about ecofriendly products and strict regulations regarding usage of conventional plastics is anticipated to drive the global biodegradable plastics. The major factors for market growth is the key initiatives taken by several government to use biodegradable plastics over conventional plastics. The cost of producing biodegradable plastics is much more than conventional plastics. However, higher cost effectiveness and lack of technology can be key challenges to many manufacturers but can be overcome with technology advancement. Volatile prices of crude oil can be an opportunity for manufacturer to shift to biodegradable plastics over petroleum based conventional plastics.

Based on product type, biodegradable plastics is segmented into polyhydroxyalkanoates (PHA), polylactic acid (PLA), polybutylene succinate (PBS), polycaprolactone (PCL), starch-based plastics, regenerated cellulose. Polylactic acid-based biodegradable plastics dominate the biodegradable plastics market. This is due to large scale application in packaging industry owing to superior properties such as high mechanical strength and low toxicity. Polylactic acid is fermented by action of wheat starch and corn starch which provide a good appearance to various products across the end user industries. Starch based biodegradable plastics are expected to overtake polylactic acid based biodegradable plastics over the forecasted period owing to high tensile strength and impact resistance in packaging and consumer goods.

Application Insights

Packaging industry is leading segment in application of biodegradable plastics. Increasing demand of biodegradable plastics as major packaging applications in food & beverage, textiles, pharmaceuticals and consumer goods is augmented to market growth over the forecasted period. Changing lifestyle of consumer along with increase in packaged food products demand in developed regions are boosting the demand for biodegradable plastics in packaging industries. Rising awareness among farmers to build green houses for production of fruits and vegetables has boosted the biodegradable plastics in agriculture application. Growing electronic, medical and automobile
industry has also boosted the demand of biodegradable plastics market.

**Study Objectives of Biodegradable Plastics Market:**

- To provide detailed analysis of the market structure along with forecast for the next 7 years of the various segments and sub-segments of the Global Biodegradable Plastics Market
- To understand the supply and demand dynamics including supply and consumption concentration mapping
- To provide region level market analysis and future outlook for North America, Europe, Asia, and Rest of the World (ROW) and their countries
- To provide competitor positioning of the market
- To provide company profiling of major players in the market along with their production and capacity
- To provide regional trade analysis
- To evaluate historical market trends, patents and technologies, and current government regulatory requirements that are relevant to the market

**Regional Analysis**

Geographically, Europe being largest consumer of Biodegradable Plastics followed by North America. These is attributed owing to high pressure by government regarding usage of biodegradable plastics in order to control disposable of garbage of conventional plastics which leads to deteriorating the quality of soil. Growing packed food products along with increasing electronic and pharmaceutical industry is anticipated to drive the biodegradable plastics market in coming years.

North America is second leading segment owing to high demand of biodegradable plastics in retail stores. Rising consumer pressure and favorable regulations by government in various industries such as textile, automobile, medical and electrical & electronic industries has propelled the demand of biodegradable plastics in US market. U.S held second position owing to government regulations in supporting loan guarantees to those manufacturers that are using high performance bio-based chemicals for production.

Asia-Pacific witnessed steady growth in biodegradable plastics market. High production cost and lack of consumer awareness leading to use of low cost petroleum based conventional plastics has led the steady growth in these regions. Other developing regions like China and India are expected to witnessed a stable growth owing to lenient regulations in using non-conventional resources.

**Competitive analysis:**

Key players of the global high Biodegradable Plastics market are BASF SE (Germany), Corbion (Netherland), Biome Technologies PLC (U.K.), Mitsubishi Chemical Corporation (Japan), NatureWorks LLC (U.S.), BIO-ON (Italy), FKuR Kunststoff GmbH (Germany), Cardia Bioplastics Limited (Australia), Cereplast Inc (U.S), Plantic Technologies Ltd (Australia) and others.

**Competitive Insights**

BASF SE (Germany), Corbion (Netherland), NatureWorks LLC (U.S.) has dominated the global Biodegradable Plastics market share in 2016.

The government is playing crucial role in promotion of biodegradable plastics in various regions. Along with strict regulations, government is supporting financial assistant to manufacturers in imposing biodegradable plastics. Owing to price sensitivity of raw materials, key players are adopting diverse pricing strategies. To keep moderate level of competition, prominent players are engaging in agreements, acquisitions and mergers in view that share of income can be diverse in range of industries.

**Geographic Analysis**

The report covers brief analysis of geographical region such as:

**North America**

- US
- Canada

**Europe**

- Germany
- France
- Italy
- Netherlands
The report about **Global Biodegradable Plastics Market** by Market Research Future comprises of extensive primary research along with detail analysis of qualitative as well as quantitative aspects by various industry experts and key opinion leaders to gain a deeper insight of the market and industry performance. The report gives a clear picture of the current market scenario which includes past and estimated future market size in terms of value and volume, technological advancement, macro economical and governing factors in the market. The report further provides detail information about strategies used by top key players in the industry. It also gives a broad study about different market segments and regions.

**Intended Audience**
- Biodegradable Plastics manufacturers
- Traders and distributors of Biodegradable Plastics
- Type industries
- Potential investors
- Raw material suppliers
- Nationalized laboratory

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