

Plasticizers – A Key Commodity of Major End-User Industries

Global Plasticizers Market has shown considerable growth in the historic period and is anticipated to achieve a healthy CAGR of 5.8% during the forecast period.



New York, New York City, Aug 2, 2021 ([Issuewire.com](https://www.issuewire.com)) - The demand for plasticizers is growing due to their versatile properties for many different polymers especially in PVC by automotive and construction sector which is likely to bolster the global plasticizers market in upcoming years. Plasticizers are highly operative in various sectors such as automotive, electronic, coatings, floorings, and others. Being one of the most widely researched chemicals in the world and a key commodity of various end-use industries, the demand for plasticizers for better durability and flexibility of polymers is always at its peak.

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The demand for plasticizers from various sectors including paints, coatings, automotive, construction, agriculture, and others is likely to propel the growth of the plasticizers market worldwide. The global plasticizers market has shown considerable growth in the historic period and is anticipated to achieve a healthy CAGR of 5.8% during the forecast period. Plasticizers are basically added in different polymers just to enhance their flexibility, stretchability, and durability. When plasticizers are added to Polymers, they decrease the Glass Transition Temperature (T_g) and viscosity of polymers while making the film coating more suitable. Plasticizers on combining with plastic tend to strengthen the Thermoplasticity and boost the fabrication quality. Polymers that consist of plasticizers would become highly dependent on the end-use industries for manufacturing films & sheet material as it exhibits compatibility and good barrier characteristics such as weather resistance and extreme heat stability. The largest market share

is held by the production of Polyvinyl Chloride (PVC) by phthalate plasticizers driven by automotive and construction industries. Plasticizers play a huge part as a key feedstock chemical widely used in industrial, technical, and commercial applications including water pipelines, drainage pipes, PVC films, paint, footwear, coatings, automobile interior, flooring, and wall coverings, and others. The plasticizers industry has started focusing on plasticizers that are bio-based and renewable which can be a safe alternative for the ecological footprint. Due to a surge in the demand for PVC in construction, automotive, electronics, and other sectors, it is expected to witness a boost in the plasticizers market worldwide. Phthalate and Diethylhexyl Phthalate (DEHP) plasticizers are classified as potent carcinogens as per the report of the International Agency for Research on Cancer (IARC). Moreover, plasticizers are considered as a potential cause for cancer thus, a ban on the use of plasticizers in toys was implemented in 2020.

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Based on the chemical properties and composition, plasticizers are classified as:

Phthalate Esters :

Phthalate esters are colorless liquids acquired by the Oxidation of Naphthalene or Orthoxylene by the esterification of Phthalic acid or Phthalic Anhydride. They are extensively used as an important additive in Polyvinyl Chloride (PVC) resins to provide flexibility. DEHP is among the widely used Phthalates that contain a low molecular Ortho-Phthalate and are often used in plastics.

Aliphatic Dibasic Acid Esters :

Esters of Dicarboxylic Acid are known as Dibasic Ester (DBE). They are usually made from Adipic Acid and Alcohols such as methanol or other Monoalcohols. Aliphatic Dibasic Acid Esters (ADBE) include chemicals like Glutarates, Sebecates, Azelates, Succinic acid, etc. ADBE finds its applications in many industrial areas including coil coatings, the automobile industry, lubricants, pesticides, paper inks, resins, and others.

Trimellitate Esters :

Esterification of Trimellitate Anhydride (TMA) along with C8-C10 alcohols leads to the production of Trimellitate Esters (TME). They are primarily used in the automotive industry. A common example of TME includes TINTM, L810TM, TOTM, and others.

Alkyl Sulfonic Acid Phenyl Ester:

Alkyl Sulfonic Acid Phenyl Ester possesses flexible biodegradable properties. It is one of the most common environmentally friendly plasticizers. They are widely used in PVC and PU due to their versatile Plasticizing and Saponification properties. These esters have good compatibility with a wide range of Polymers.

Bio-based Plasticizers:

Bio-based plasticizers include a variety of plasticizers such as Polyester Plasticizer, Epoxidized Plasticizer, Macromolecular Plasticizer, Glyceryl ester Plasticizers, Internal Plasticizer, and others. Bio Plasticizers exhibit fewer chemicals and have a good impact on the environment. Due to the ban on Phthalates, the demand for bio-based Plasticizers has increased in the market for medical devices,

consumer products, and food and beverages packaging material.

FAQs

What is the current potential of the Global Plasticizers Market?

The plasticizers market is highly fragmented with more than 25,000 players operating worldwide. APAC region contributes the largest share of the global plasticizers market due to advancements in the construction, electronic and automotive sectors. An increase in demand for green fuels is also a major driving factor for surging the market growth in Europe in upcoming years.

What is a major driver in the Global Plasticizers Market?

The rising demand for bio-based plasticizers by various sectors including automotive, food & beverages, medical, construction, and others are projected to drive the global plasticizers market. Production of PVC demanded plenty of applications such as pipelines, PVC films, etc. is likely to propel the growth of the plasticizers market worldwide.

Which region holds the highest share in the Global Plasticizers Market?

APAC region is the largest shareholder in the global Plasticizers market followed by Europe and North America. In the Asia Pacific, the advancements in the construction and automotive sector are driving the demand for Plasticizers. Increased demand for green and bio-based fuels is also a factor propelling the demand growth in Europe during the forecast period. North America plays a big role in contributing bio-based plasticizers.

What are the challenges faced by the Global Plasticizers Market?

The imposed ban of phthalates, mainly Diethylhexyl Phthalate (DEHP), in plastics is likely to impact the sales and production of Phthalate Plasticizers. Meanwhile, the demand for biobased plasticizers is anticipated to boost the global plasticizers market. The intensity of the global crises was compounded by the fact that many industries were operating at reduced capacity, consequently lowering the number of employees as well. Fewer workers made it difficult for manufacturers of industrial plasticizers and their byproducts to fulfill the demand from end-user industries.

Competitive Landscape:

Some of the major players operating in the global plasticizers market are Dow Chemical Company, Arkema S.A., Evonik Industries Ag, BASF SE, LG CHEM LTD., Exxon Mobil Corporation, Ineos Group, UPC GROUP, Eastman Chemical Company, Shandong Hongxin Chemicals, Bluesail, and others.

Conclusion :

The global plasticizers market has shown considerable growth in previous years and is anticipated to achieve a CAGR of 5.8% during the forecast period. plasticizers are widely used in pharmaceuticals, paints and coatings, construction, food beverages, and electronic industries. As the chain of plasticizers and its types as additives held the largest share of the market and its continuous growing expanse across the globe is likely to bolster the growth of the global plasticizers market in the upcoming years. The disruption in overall import and export of plasticizers due to the health crises across the countries is expected to decline in sales and distribution whereas, its demand for Bio plasticizers in the food

packaging and consumer goods sector has increased. The major companies in the global plasticizers market are focusing on product innovation and research to gain a competitive edge over the other key players.

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