

# Global Market Analysis on Vinylphosphonic Acid market, CFRP Recycle market forecasted till 2030

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SEATTLE , WASHINGTON, USA, June 30, 2023 /EINPresswire.com/ -- Executive Summary:

The Vinylphosphonic Acid market research report provides a comprehensive analysis of the current market conditions, trends, and drivers. The report covers the Vinylphosphonic Acid market size in terms of volume and value, and provides a detailed breakdown by product type, application, and end-user industry. The market is expected to grow in the coming years due to the increasing demand for Vinylphosphonic Acid in the pharmaceutical, personal care, and agricultural industries. The report also profiles the key players operating in the market and provides insights into their strategies, financial performance, and recent developments. Overall, the Vinylphosphonic Acid market is anticipated to witness significant growth over the forecast period.

Euticals, a leading manufacturer of fine chemicals, offers vinylphosphonic acid used in water treatment, coatings, and adhesives, and is likely to expand its production capacity. BASF, a multinational chemical company, also manufactures vinylphosphonic acid used in a range of industries, including water treatment, coatings, adhesives, and personal care products. Solvay Novecare, a subsidiary of Solvay, develops and supplies vinylphosphonic acid-based polymers used in various industrial and consumer applications.

BASF generated a revenue of \$59.5 billion in 2020. Euticals' sum of consolidated revenues and other operating revenues was €239 million in 2020. Solvay generated a revenue of €10.2 billion in 2020. These revenues showcase the significant presence of the above-listed companies in the Vinylphosphonic Acid market.

Vinylphosphonic Acid (VPA) is a colorless liquid that consists of a vinyl group ( $C=C$ ) and a phosphonic acid group ( $PO_3H_2$ ) attached to one of the carbon atoms of the double bond. VPA is used in various applications in different forms such as VPA 80%, VPA 90%, and others. VPA 80% comprises 80% purity of VPA, while VPA 90% comprises 90% purity of VPA. Other forms of VPA include VPA 50% and VPA 60%. These forms are used in different applications according to their respective properties and requirements.

Vinylphosphonic acid (VPA) is a versatile organic compound widely used in various applications

due to its unique properties including high thermal stability, chemical resistance, and strong metal-binding capacity. VPA is primarily used as a monomer in the synthesis of homopolymers and copolymers for various applications such as coatings, printing, water treatment, oil well, fuel cells, medical care, and others.

The Vinylphosphonic Acid market is expected to be dominated by the Asia Pacific region, followed by North America and Europe. The Asia Pacific is anticipated to hold the largest market share of around 40% to 45% in the overall Vinylphosphonic Acid market share. This can be attributed to the growing demand for the product from various end-use industries such as electronics, pharmaceuticals, and agriculture in this region.

North America and Europe are also expected to witness significant growth in the Vinylphosphonic Acid market due to the increasing demand for high-performance materials in various sectors, including automotive, construction, and packaging. The market share for North America is expected to be around 25% to 30%, while for Europe, it is expected to be around 20% to 25%.

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#### Executive Summary:

The global CFRP (carbon fiber reinforced polymer) recycle market is expected to grow significantly, due to the rise in demand for carbon fiber composites in various applications. The growth can be attributed to the increasing awareness of carbon footprint reduction and strict environmental regulations. The market size for CFRP recycle is expected to reach USD 506.70 million by 2030, with a CAGR of 7.60% from 2023 to 2030. The Asia-Pacific region is expected to hold the largest market share, due to the presence of major automotive, aerospace, and wind energy industries in the region.

The CFRP recycle market is a highly competitive landscape with several players operating in this industry. Some of the leading companies in the CFRP recycle market include Carbon Conversions, ELG Carbon Fibre, Karborek, Mitsubishi (CFK Valley Recycling), JCMA, Carbon Fiber Remanufacturing, CRTA, Adherent Tech, Hadeq Recycling, Procotex, SGL Carbon, CFRI, Sigmatex, and Carbon Fiber Recycling.

These companies play a crucial role in growing the CFRP recycle market by providing innovative solutions for recycling and re-manufacturing carbon fiber composites. They help in reducing the carbon footprint of the industry and lowering the cost of producing carbon fiber composites.

The sales revenue figures of a few of the above-listed companies are as follows:

- ELG Carbon Fibre: \$15 million (2018)

- Sigmatex: \$113 million (2017)

- SGL Carbon: \$1.1 billion (2019)

CFRP, short for Carbon Fiber Reinforced Polymer, is a robust and lightweight composite material used in various industries. However, the recycling and disposal of CFRP pose a significant challenge as traditional methods are not viable. To address this issue, two types of recycling processes are utilized: chemical process and physical process.

The chemical process involves breaking down the composite material into its constituent components through chemical reactions. These components either get re-cured into new CFRP products or used in other applications. In contrast, the physical process involves shredding the composite material and then mechanically separating the components. These components get reused in non-structural applications like insulation or concrete reinforcement material.

CFRP (Carbon Fiber Reinforced Polymer) is a lightweight and strong material with several application areas ranging from aerospace to sporting goods, automobiles, industrial use, and others. However, due to its high price and difficulty in recycling, CFRP materials were not used at a very large scale. But with the advancement in technology, CFRP recycling has become more efficient and cost-effective, leading to its increased use.

In the aerospace industry, CFRP is used to manufacture structural components such as wings, fuselage, and tail sections. In sporting goods, it is used to make bicycles, golf clubs, and tennis rackets. In automobiles, CFRP is used to manufacture components such as body panels, chassis, and interior parts. In industrial use, it is used in wind turbines and pressure vessels. The fastest-growing application segment in terms of revenue is the automotive industry, which is increasing its use of CFRP in the manufacturing of electric and hybrid vehicles. The efficient recycling of CFRP materials will help reduce waste and production costs, leading to its increased use in these and other industries.

The CFRP (carbon fiber reinforced polymer) recycle market is expected to be dominated by the Asia-Pacific region, with China, Japan, and South Korea being the major contributors to the market growth. The increasing demand for CFRP products in these countries, along with the implementation of stringent environmental regulations by governments, is expected to drive the growth of the CFRP recycle market in the Asia-Pacific region.

The Asia-Pacific region is expected to hold the largest market share percent valuation of the CFRP recycle market, which is estimated to be around 50-60%. The North American and European regions are also expected to contribute significantly to the market growth, owing to the growing demand for lightweight and high-strength materials in the aerospace and automotive industries.

The expected market share of the CFRP recycle market in the North American and European regions is estimated to be around 20-25% and 15-20%, respectively. The rest of the world is also expected to witness significant growth in the CFRP recycle market due to increasing investments

by international companies and favorable government policies.

Click here for more information:

<https://www.reportprime.com/cfrp-recycle-r165>

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