Global Lignin Market: Analysis By Type (Lignosulfonates, Kraft Lignin, and Others), By Form (Solid, and Liquid), By Application (Dispersants, Construction Material, Carbon Fiber & Bio-base Carbons, Resins & Glues, Biopolymer, Animal Feed, and Other Applications), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

https://marketpublishers.com/r/GEB877E1FAA9EN.html
Date: July 2024
Pages: 153
Price: US$ 2,250.00 (Single User License)
ID: GEB877E1FAA9EN

Abstracts

The global lignin market refers to the global industry involved in the production, distribution, and commercialization of lignin and lignin-based materials, ranging from concrete additives to biofuel production. Lignin based materials are sustainable, environmentally friendly, non-toxic, and affordable with wide variety of applications in energy storage environments, electronic devices, automotive, construction, etc. The global lignin market value stood at US$995.24 million in 2023, and is expected to reach by US$1.33 billion by 2029.

Greater emphasis on sustainability, rise in production & demand for concrete additives, increased need for environmentally acceptable materials, rising availability of raw material and easy production of lignin, favorable regulatory actions supporting the use of bio-based products, and growing demand for paints & coatings, are major factors driving the growth of global lignin market. Additionally, expanded commercial applications in animal feed additives, agriculture, industrial cleaners and water treatment, oil field chemicals, industrial binders, battery additives, and a variety of other industries is expected to further boost the sales of lignin in upcoming years. Moreover, rise in usage of biofuels, increasing demand for lignin in animal feed and natural products, growing popularity of substituting fossil-based raw materials, and increasing inclination of industries and consumers towards greener alternatives, will continue to

+44 20 8123 2220
info@marketpublishers.com

boost the use of lignin as a promising renewable raw material in the forecasted years. The market is expected to grow at a CAGR of 5.04% over the projected period of 2024-2029.

Market Segmentation Analysis:

By Type: The report provides the bifurcation of the global lignin market into three segments on the basis of type: lignosulfonates, kraft lignin, and others. Lignosulfonates is the largest segment of global lignin market as a result of lignosulfonates's high binding capability & low cost, established market presence and broad application range, increasing demand for sustainable and environment friendly products, rising application of lignin in concrete mixtures in China, India, & the US on account of developing construction sector, rapid urbanization in emerging economies, positive growth in oil & gas industry, & increasing adoption of lignosulfonates for dust control. Kraft Lignin is the fastest growing segment of global lignin market owing to consistent and abundant supply of kraft lignin, ongoing integration of circular economy framework, presence of favorable government policies and incentives promoting the use of renewable energy & sustainable materials, competitive pricing of kraft lignin compared to synthetic alternatives, and presence of high energy content in kaft lignin, making it suitable for bioenergy applications.

By Application: The report has segmented the global lignin market into seven applications, namely, dispersants, construction material, carbon fiber & bio-base carbons, resins & glues, biopolymer, animal feed, and other applications. Lignin dispersants is the largest segment of global lignin market as a result of environmental benefits of lignin-based dispersants, well-established & proven lignin dispersant technology, increasing regulatory and consumer demand for sustainable and green products, lignin offering a cost-effective alternative to synthetic dispersants, and added advantage of lignin dispersants in terms of versatility and compatibility with various formulations, including aqueous and solvent-based systems.

By Form: The report provides the bifurcation of the global lignin market into two segments on the basis of form: liquid and solid. Solid is the largest and fastest growing segment of global lignin market as a result of growing focus on reducing carbon emissions and transitioning to sustainable energy sources, easier storage and transportation, increasing demand for lightweight and strong materials in aerospace, automotive, and sports equipment industries, growing demand for solid lignin in soil amendments and fertilizers in sustainable agricultural practices, emergence of solid lignin in various new applications like biofuels, bioplastics, and carbon fibers, and ongoing advancements in processing techniques enabling more efficient and cost-effective production of solid lignin.

By Region: The report provides insight into the global lignin market based on regions namely, North America, Europe, Asia Pacific, and rest of the world. Europe is the largest region of the global lignin market owing to strong regulatory support for sustainable materials, rising demand for compact motor vehicles, increasing incorporation of circular economy principles and waste valorization, ascending aromatic application of lignin in aromatic alcohol, region's well-established pulp and paper industries, robust biorefinery infrastructure, growing preference for sustainable and eco-friendly materials, ongoing developments of bio-based chemicals, and region’s strong emphasis on environmental conservation.

Asia pacific is the fastest growing region of global lignin market, owing to burgeoning industrialization, surging demand for electronics and automobiles, increasing demand for products sourced from bio based sources, rapidly developing construction sector, growing knowledge of the advantageous effects of lignin in livestock feed among breeders & keepers, presence of thriving pulp & paper-producing sector, rapid urbanization, increasing population, heightened demand for sustainable materials, especially in countries like China & India, and increasing acquisition of Lignin technology in the region.

Market Dynamics:

Growth Drivers: The global lignin market has been rapidly growing over the past few years, due to factors such as rising construction expenditure, growing demand for automobiles and electronics, robust growth of animal feed additives, rapidly expanding pulp and paper industry, favorable government initiatives and policies, etc. The automotive industry is adopting lignin-based materials for the production of lightweight and high-strength components, which help in improving fuel efficiency and reducing emissions, propelling the growth of the lignin market. Also, lignin being a renewable and eco-friendly material, is used in manufacturing various automotive components, including interior panels, seat cushions, and insulation materials. Furthermore, lignin has antimicrobial and antioxidant properties, which can contribute to the health & welfare of livestock by reducing the incidence of diseases and promoting overall animal health, thereby boosting its demand as a feed additive. Moreover, governments of various countries have imposed a few regulations to reduce greenhouse emissions & have compelled polymer manufacturing companies to increase investments in developing naturally derived raw materials.

Challenges: However, the global lignin market growth would be negatively impacted by various challenges such as, limited awareness and understanding, high extraction costs, etc. The extraction and purification of lignin can be costly, especially when aiming for high-purity lignin suitable for advanced applications. These high costs can limit the competitiveness of lignin-based products compared to conventional materials. In addition, effectively marketing of lignin-based products to highlight their environmental benefits and performance advantages can be challenging, especially in markets dominated by well-known synthetic materials.

Trends: The global lignin market is projected to grow at a fast pace during the forecasted period, due to advancements in lignin extraction technologies, growing use of lignin in biofuels and bio refinery catalysts, positive shift towards the use of sustainable products, increasing adoption of circular economy initiatives, etc. Rise in demand for sustainable and eco-friendly materials has been a major driver of the increasing interest in lignin as a raw material for a variety of applications. Lignin, derived from plant biomass, is considered a green alternative to synthetic chemicals and materials, leading to its increased adoption in products such as biodegradable plastics, adhesives, feed additives, resins, etc. In addition, bio-oil derived from lignin are refined into transportation fuels such as diesel and gasoline, while syngas are used as fuel for power generation. Therefore, rise in demand for lignin as a biofuel is creating opportunities to develop more sustainable & environmentally friendly sources of energy, and as technologies for the production of lignin-based biofuels continue to improve, lignin is likely to play an increasingly important role in the transition to a more sustainable energy future, accelerating the growth of global lignin market over the forecasted years.

Impact Analysis of COVID-19 and Way Forward:

COVID-19 brought in many changes in the world in terms of reduced productivity, loss of life, business closures, closing down of factories and organizations, and shift to an online mode of work. Lockdown policies imposed by the government to prevent virus spread forced various end user industries to either shut down or run low on production capacity, resulting in lower production and manufacturing activities and a sudden fall in the demand of lignin based products. Also, many construction and infrastructure projects were put on hold or canceled during the period, diminishing the demand for lignin used in concrete admixtures and other construction materials.

Competitive Landscape:

The global lignin market is relatively fragmented with large number of companies, ranging from established brands to smaller regional players and niche manufacturers catering to the industry demand. Most of the businesses are investing substantially in R&D activities to expand product portfolio and increase their lignin market share. The key players of the market are:

Borregaard AS
Aditya Birla Group (Domsj? Fabriker)
Stora Enso Oyj
Sappi Limited
Suzano S/A
Burgo Group S.p.A.
Mets? Group
Ingevity Corporation
UPM
Green Agrochem
Tokyo Chemical Industry Co., Ltd.

Major companies in the market are adopting collaboration strategies to increase their product reach and increase the availability of their products & services in diverse geographical areas and gain competitive edge. For instance, on May 29, 2023, Mets? Group announced that Mets? Fibre in collaboration with ANDRITZ, plan to build a demonstration plant for a modified lignin product, to develop the process to separate lignin from black liquor in pulp production and to further process it for new end-uses. The lignin market in North America is also highly competitive due to the presence of well-established and dominating North America and regional market manufacturers competing based on product quality, price, and product differentiation. The entry barriers, such as the requirement of moderate to high capital investment and high competition from well-established players, pose increasing threat to new market players entering into the market. The majority of the lignin is produced in the paper & pulp industry, as a byproduct of processing. Thus, it is difficult for the new player to enter the market due to the highly dominant players, moderate technological development cost, and availability of raw materials.

Contents

4. REGIONAL MARKET ANALYSIS

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Global Lignin Market: Analysis By Type (Lignosulfonates, Kraft Lignin, and Others), By Form (Solid, and Liquid), By Application (Dispersants, Construction Material, Carbon Fiber & Bio-base Carbons, Resins & Glues, Biopolymer, Animal Feed, and Other Applications), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

Product link: https://marketpublishers.com/r/GEB877E1FAA9EN.html

Price: US$ 2,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GEB877E1FAA9EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**All fields are required

Custumer signature ______________________________

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970