

Global Lignin Market By Products (Lignosulfonate, Kraft Lignin and Others), By Applications (Concrete Additives, Animal Feed, Dyestuff, Others) And By Geography

<https://marketpublishers.com/r/G7B446B4361EN.html>

Date: July 2015

Pages: 258

Price: US\$ 3,100.00 (Single User License)

ID: G7B446B4361EN

Abstracts

Global lignin market is estimated to grow at CAGR 2.7% for the forecast period from 2014 to 2021. Types, applications and geography segment this report. Segmentations by types include lignosulphonates, kraft lignin and others consisting organosolv lignin. Global lignin market report covers applications such as concrete additives, animal feed, dyestuff, and others. Other lignin include applications like fertilizers and pesticides, thermoplastic polymers, binders and resins, inks, varnishes and paints, cosmetics and absorbents. Concrete additives account the largest application share in the global lignin market. Animal feed is fastest growing application market.

Lignin is a lignocellulosic biomass component and by-product of pulp industry. Available in abundance, lignin is the only recognized natural biological aromatic polymer. This polymer is competent of producing different straight chain, cyclic and aromatic chemicals. Value added applications of lignin could be grouped as energy, macromolecules and aromatics. Aromatics and macromolecules based lignin derivatives are the most demanded commodities in the market.

Lignosulphonates and kraft lignin are sulphur bearer lignin whereas low purity lignin, organosolv lignin and high-grade are sulphur free lignin. They are widely used in the production of energy, cement additives, carbon fibres, vanillin, activated carbon, phenolic resins, bio-fuel, phenol derivatives, etc. Lignosulphonates dominates the industry followed by kraft lignin. Organosolv lignin is yet to be used commercially, but has immense scope in the near future.

North America is the leading geography followed by Europe. Asia Pacific is the fastest growing region and it is expected to emerge as biggest market over the forecast period. Countries like USA, Germany, India, China, and Brazil are the drivers for regional growth. The market is estimated to reach USD 1,323.1 million by 2021. The global lignin market will increase by 19.27% by 2021 over 2014.

Lack of awareness among manufacturers, low coordination of industry and research institutes, Inefficient Bio-refinery Processes, and Primary Extraction Technology are some of the major hurdles in the growth of the global lignin market. Despite of such restraint, lignin manages potential opportunities like emerging bio-refinery lignin; substitution for petrochemicals, resins, additives, and plastics; and to be bulk renewable resource.

Research and developments are carried to convert lignin into carbon nanofibre. Carbon nanofibre derived from carbon nanotubes, graphene and polyacrylonitrile are expensive compared to lignin-based carbon polymer. Major companies have ventured to research lignin based marine biofuels, bioplastics, carbon black and active carbon. Converting lignin into smaller chemical elements is the principal purpose for renewable fuels and oligomers. Lignin is expected to be next generation precursor for biofuels and other applications. Owing to these developments, industries such as aerospace, petrochemicals, construction, and automobiles will witness dynamic growth. Development of biobased derivatives of lignin will change the future circumstances.

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