North America Lignin Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Lignosulfonates, Kraft Lignin, High Purity Lignin, and Others), Form (Solid and Liquid), and Application (Concrete Additives, Plastics and Polymers, Bitumen, Water Treatment, Dyes and Pigments, Activated Carbon, Carbon Fiber, and Others)

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Abstracts

The North America lignin market was valued at US$ 1,21,676.61 thousand in 2022 and is expected to reach US$ 1,67,815.19 thousand by 2028; it is estimated to grow at a CAGR of 5.5% from 2022 to 2028.

Government Regulations and Initiatives to Promote Sustainable and Bio-Products

Governments of various European countries have imposed a few regulations on using chemicals to manufacture products in many processing industries, such as personal care, animal feed, and agriculture, to ensure better protection of human health and the environment. Moreover, these regulations are set to reduce greenhouse emissions and have compelled polymer manufacturing companies to increase investments in developing naturally derived raw materials. Rising awareness regarding greenhouse gas (GHG) emissions has surged the demand for bio-based polymer products. Thus, lignin is being used as an intermediate for manufacturing phenol, phenolic resins, and emulsifying agents. The increasing importance of using biofuels, especially in North America, on account of regulatory support to reduce air pollution and GHG emissions is boosting the demand for lignin. Governments of various countries are adopting several initiatives to increase the awareness and development of lignin-based biomaterials. In 2020, Michigan State University received funding from the National Institute of Food and

Agriculture (United States Department of Agriculture) to develop sustainable lignin-based resins for adhesive, coating, elastomer, and foam applications. Therefore, government regulations and initiatives to promote sustainable and bio-products are driving the lignin market growth.

North America Lignin Market Overview

The lignin market in North America is segmented into the US, Canada, and Mexico. North America holds many growth opportunities for lignin manufacturers owing to increasing demand from various end-use industries such as plastics & polymers, pulp & paper, animal feed, paints & coatings, and pesticides. These industries use lignin in the form of lignosulphonates, kraft lignin, and high purity lignin as they possess high molecular weight, ideal glass transition temperature, good thermal decomposition, high lignin solubility, biodegradability, and high antioxidant properties. Lignin - a byproduct of paper and bioethanol production- can thoroughly replace phenol in a phenolic adhesive formulation, make building materials less toxic, and replace petroleum. Additionally, support from government of various countries in the region for advanced infrastructural setup and rising investment in the construction sector are driving the growth of lignin market. For instance, on August 02, 2021, according to the White House report, the legislation invested US$ 17 billion in port infrastructure and waterways, and US$ 25 billion in airports to address repair and maintenance backlogs, facilitate congestion and emissions near ports and airports, and push electrification and other low-carbon technologies.

North America Lignin Market Revenue and Forecast to 2028 (US$ Thousand)

North America Lignin Market Segmentation

The North America lignin market is segmented based on type, form, application, and country. Based on type, the North America lignin market is segmented into lignosulfonates, kraft lignin, high purity lignin, and others. The lignosulfonates segment held the largest market share in 2022.

Based on form, the North America lignin market is bifurcated into solid and liquid. The solid segment held a larger market share in 2022.

Based on application, the North America lignin market is segmented into concrete additives, plastics and polymers, bitumen, water treatment, dyes and pigments, activated carbon, carbon fiber, and others. The plastics and polymers segment held the largest market share in 2022.

Based on country, the North America lignin market is segmented into the US, Canada, and Mexico. The US dominated the North America lignin market share in 2022.

Nippon Paper Industries Co Ltd; Borregaard ASA; Burgo Group SpA; Domsjo Fabriker AB; Sappi Ltd; Stora Enso Oyj; Suzano SA; The Dallas Group of America Inc; Tokyo Chemical Industry Co Ltd; and West Fraser Timber Co Ltd are the leading companies operating in the North America lignin market.

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