

# Global Bioadhesives Market – Types and Applications

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## Abstracts

### REPORT SYNOPSIS

The demand for Bioadhesives has been growing significantly, owing primarily to the fact of their natural origin, and also because of their range of applications as substitutes to regular synthetic adhesives. Regulatory agencies across the globe have mandated strict rules against the uncontrolled use of petroleum-derived products because of serious ecological consequences. Hence, there has been a manifest shift towards using natural resources as materials in a variety of application areas, to which end Bioadhesives are also a part.

Despite being used for centuries as general-purpose adhesives by various cultures and civilizations, the importance of Bioadhesives as an effective and eco-friendly alternative to petroleum-derived adhesives has been realized over the past few decades.

Paper & Packaging applications dominate the global demand for Bioadhesives which is accounted estimated share of 45.3% in 2022 and is projected to reach US\$7.8 billion by 2029. Overall, it can be said that the market for Bioadhesives will maintain a steady growth over the 2022-2029 analysis period because of a range of factors in favor of these innovative materials.

### Research Findings & Coverage

Global Bioadhesives market is analyzed in this report with respect to key product types and applications

The study exclusively analyzes the market for Bioadhesives by key product type and application in each geographic region/country

Bioadhesive Based on White-Light Cross-Linkable Casein with Rapid Gelation for First-Aid Wound Treatment Developed

Plant- and Water-Based Eco Super-Glue Offers a Multitude of Prospective Uses

Lignin Gains Acceptance as a Nontoxic Bioadhesive Option for Engineered Wood Products

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled – 16

The industry guide includes the contact details for 60 companies

## **PRODUCT OUTLINE**

The report analyzes the market for the following key product types of Bioadhesives:

Animal-Based Bioadhesives

Plant-Based Bioadhesives

Applications market for Bioadhesives is analyzed in this study comprise the following:

Construction

Medical & Healthcare

Paper & Packaging

Personal Care Products

Woodworking

Other Applications

## Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Bioadhesives market for the period 2020-2029 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2022 through 2029

## Geographic Coverage

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, The United Kingdom and Rest of Europe)

Asia-Pacific (China, India, South Korea and Rest of Asia-Pacific)

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- Danimer Scientific LLC (United States)
- Ecosynthetix, Inc. (Canada)
- Emsland Group (Germany)
- Henkel AG & Co KGaA (Germany)
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Fig 1: Chemical Structure and Properties of Cellulose

Fig 2: Functionalization Reaction between lignin and succinic anhydride (SAn) to produce succinylated lignin

Fig 3: Hydrolyzable and Condensed Tannins and their Chemical Structures

Fig 4: Condensed Tannin Structure Comprising the I-Ring (Includes Resorcinol and Phloroglucinol) and II-Ring (includes Pyrogallol and Catechol)

Fig 5: Molecular Structures of  $\alpha$ -D-Glucose and the Two Major Molecules Making Up Starch, Amylose and Amylopectin

Fig 6: Complexation of Starch Molecules by Borax in a Basic Solution

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