

# **Biodegradable Superabsorbent Materials Market Report by Product (Polyvinyl Alcohol, Polyitaconic Acid, Polyacrylamide, Polysaccharides), Application (Personal Care and Hygiene, Agriculture, Medical, and Others), and Region 2024-2032**

<https://marketpublishers.com/r/B8444645C8B6EN.html>

Date: March 2024

Pages: 140

Price: US\$ 3,899.00 (Single User License)

ID: B8444645C8B6EN

## **Abstracts**

The global biodegradable superabsorbent materials market size reached US\$ 141.6 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 214.6 Million by 2032, exhibiting a growth rate (CAGR) of 4.58% during 2024-2032. The increasing demand for female hygiene, disposable diapers, adult incontinence products, and the stringent government regulations on reducing plastic waste are key factors driving the market.

Biodegradable superabsorbent materials (BSAMs) can absorb and retain large amounts of liquid while breaking down into harmless compounds in the environment. These materials are made from natural polymers, such as starch, cellulose, and chitosan, and can be used in various applications, including agriculture, hygiene products, and water treatment. In agriculture, BSAMs improve water retention in soil, thereby reducing water usage and improving crop yields. These materials are used as mulch films to prevent soil erosion and improve the soil's overall health. Additionally, they are used as soil amendments to improve nutrient availability and plant growth. They are also used in hygiene products instead of traditional superabsorbent materials from non-renewable resources such as petroleum. These materials are commonly used in diapers, sanitary pads, and incontinence products, where they can provide superior absorbency while reducing the environmental impact of these products. BSAMs are widely used in wound dressings, where they can absorb excess fluid and help to promote healing. They offer a sustainable alternative to traditional superabsorbent materials, which can have a significant environmental impact due to their non-biodegradable nature. They are also

extensively used in water treatment to remove contaminants from wastewater and other polluted water sources. These materials can absorb heavy metals, organic compounds, and other pollutants, effectively filtering the water and making it safe for human and animal consumption.

#### Biodegradable Superabsorbent Materials Market Trends:

The growing awareness regarding the environmental impact of traditional superabsorbent materials significantly contributes to the market growth worldwide. In line with this, the increasing demand for sustainable and eco-friendly products is positively influencing the market. The escalating sales of female hygiene, disposable diapers, and adult incontinence products are catalyzing the market. Furthermore, the stringent government regulations on reducing plastic waste are creating a positive outlook for the market. The rising consumer demand for natural and organic products is further propelling the market. Apart from this, the increasing usage of BSAMs in agriculture to improve crop yields and reduce water usage is favoring the market. Moreover, the increasing demand for biodegradable materials in the hygiene industry and the growing popularity of eco-friendly diapers and sanitary products are strengthening the market. The extensive use of BSAMs in wound care products and water treatment to remove pollutants and contaminants is bolstering the market. Additionally, the collaborations between governments, industries, and research institutions to promote sustainable materials is creating a positive outlook for the market. The improved manufacturing processes, the cost-effectiveness of BSAMs, and the easy availability of raw materials for the production of BSAMs are providing a boost to the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global biodegradable superabsorbent materials market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on product and application.

#### Product Insights:

- Polyvinyl Alcohol
- Polyitaconic Acid
- Polyacrylamide
- Polysaccharides

The report has provided a detailed breakup and analysis of the biodegradable superabsorbent materials market based on the product. This polyvinyl alcohol,

polyitaconic acid, polyacrylamide, and polysaccharides. Among these, polyvinyl alcohol represented the largest market segment.

#### Application Insights:

- Personal Care and Hygiene
  - Disposable Diapers
  - Adult Incontinence Products
  - Female Hygiene
- Agriculture
- Medical
- Others

A detailed breakup and analysis of the biodegradable superabsorbent materials market based on the application has also been provided in the report. This includes personal care and hygiene (disposable diapers, adult incontinence products, and female hygiene), agriculture, medical, and others. Among these, personal care and hygiene (disposable diapers, adult incontinence products, and female hygiene) accounted for the largest market segment.

#### Regional Insights:

- North America
  - United States
  - Canada
- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia
  - Others
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
  - Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe was the largest market for biodegradable superabsorbent materials. Some of the factors driving the Europe biodegradable superabsorbent materials market included the increasing demand for biodegradable materials in the hygiene segment and the growing popularity of eco-friendly diapers and sanitary products.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global biodegradable superabsorbent materials market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include BASF SE, Chinafloc, Itaconix Corporation, Nippon Shokubai Co., Ltd, Nuoer Chemical Australia Pty Ltd, and SNF Group. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report

1. How big is the global biodegradable superabsorbent materials market?
2. What is the expected growth rate of the global biodegradable superabsorbent materials market during 2024-2032?
3. What are the key factors driving the global biodegradable superabsorbent materials market?
4. What has been the impact of COVID-19 on the global biodegradable superabsorbent materials market?
5. What is the breakup of the global biodegradable superabsorbent materials market based on the product?

6. What is the breakup of the global biodegradable superabsorbent materials market based on the application?
7. What are the key regions in the global biodegradable superabsorbent materials market?
8. Who are the key players/companies in the global biodegradable superabsorbent materials market?

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