

Post-harvest Treatment Products Market Forecasts to 2032 – Global Analysis By Product Type (Coatings, Cleaners, Fungicides, Sprout Inhibitors, Ripening Agents, Ethylene Blockers, Sanitizers & Disinfectants and Other Product Types), Crop Type, Origin, Application and By Geography

<https://marketpublishers.com/r/P145B27DFEADEN.html>

Date: May 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: P145B27DFEADEN

Abstracts

According to Statistics MRC, the Global Post-harvest Treatment Products Market is accounted for \$2.52 billion in 2025 and is expected to reach \$4.12 billion by 2032 growing at a CAGR of 7.3% during the forecast period. Post-harvest treatment products are substances or technologies applied to agricultural produce after harvesting to maintain quality, extend shelf life, and reduce spoilage. These treatments include fungicides, coatings, sanitizers, and ripening agents, helping preserve freshness during storage and transport. Commonly used for fruits, vegetables, and grains, they play a vital role in minimizing post-harvest losses, improving marketability, and ensuring food safety across the supply chain from farm to consumer.

According to the United States Food and Agriculture Organization, global quantitative food losses and waste each year are roughly 30% for cereals, 40-50 percent for root crops, fruits, and vegetables, 20% for oilseeds, meat, and dairy, and more than 35% for seafood.

Market Dynamics:

Driver:

Increasing export of perishable produce

The global demand for fresh fruits and vegetables has led to a rise in exports, particularly from developing economies. Advancements in logistics and transportation allow producers to ship perishable goods across borders efficiently. Governments and trade organizations are implementing policies that promote exports, boosting revenue streams for farmers. The adoption of modern preservation techniques extends shelf life, ensuring higher-quality produce reaches international markets. Investments in sustainable packaging and processing methods further enhance the appeal of exported goods.

Restraint:

Limited awareness among small-scale farmers

The absence of structured training programs prevents them from adopting improved preservation techniques. Without adequate knowledge, farmers continue to rely on traditional practices that do not optimize produce quality. Additionally, financial constraints hinder investments in modern post-harvest solutions. Government and industry-led initiatives are essential in bridging this awareness gap and ensuring equitable knowledge distribution. Expanding outreach programs can empower small-scale farmers to benefit from technological advancements.

Opportunity:

Advancements in post-harvest technologies

Innovations such as edible coatings, controlled atmosphere storage, and precision drying techniques improve produce longevity. Enhanced preservation methods reduce waste, resulting in higher profit margins for producers and exporters. The integration of AI and IoT in post-harvest monitoring offers real-time insights into storage conditions. Companies investing in these advancements gain a competitive edge by ensuring optimal produce freshness. Continued research and development promise to revolutionize the efficiency and sustainability of post-harvest processes.

Threat:

Lack of cold chain infrastructure

Inadequate cold storage and transportation facilities pose a significant challenge to post-

harvest treatment success. Many regions suffer from inconsistent temperature control, leading to increased spoilage rates. High infrastructure costs deter investment in large-scale cold chain networks. Small and medium-sized enterprises struggle to access affordable refrigerated logistics, reducing their competitiveness in global markets. Addressing this gap requires collaboration between governments, private entities, and technology providers.

Covid-19 Impact

The COVID-19 pandemic disrupted the post-harvest treatment industry by affecting supply chains and limiting trade activities. Movement restrictions led to increased food spoilage due to delays in transportation. However, the crisis accelerated the adoption of digital monitoring tools for post-harvest management. Producers turned to automation and remote tracking solutions to mitigate risks and enhance efficiency. Post-pandemic, the focus has shifted toward resilient and adaptive treatment technologies.

The coatings segment is expected to be the largest during the forecast period

The coatings segment is expected to account for the largest market share during the forecast period, due to its significant role in extending the shelf life of perishable goods. Edible coatings and protective films help retain moisture, reduce oxidation, and prevent microbial contamination. The increasing preference for natural and biodegradable coatings enhances their adoption across global markets.

The post-harvest handling segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the post-harvest handling segment is predicted to witness the highest growth rate, due to improvements in processing and logistics. Technologies such as automated sorting, grading, and storage solutions optimize efficiency and reduce losses. The rising consumer preference for fresh and minimally processed foods amplifies the need for sophisticated handling methods. The demand for extended freshness in international trade is driving the evolution of post-harvest handling techniques.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to its extensive agricultural output and export capabilities. Strong

governmental initiatives support advancements in post-harvest treatment technologies. Countries like China, India, and Japan are driving innovations in preservation methods. Increasing urbanization and changing consumer preferences fuel demand for high-quality fresh produce. The presence of key industry players contributes to the region's leadership in the post-harvest treatment market.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to growing investments in advanced post-harvest treatment solutions. The region's strong research and development ecosystem fosters innovation in preservation technologies. Increasing awareness of food wastage and sustainability concerns accelerates the adoption of new treatment methods. Government-backed initiatives support infrastructure improvements and cold chain expansions.

Key players in the market

Some of the key players profiled in the Post-harvest Treatment Products Market include AgroFresh, BASF, Bayer AG, Syngenta Crop Protection AG, JBT Corporation, Nufarm, Pace International LLC, Xeda International S.A.S., DECCO (part of UPL), Citrosol S.A., Hazel Technologies, Inc., Lytone Enterprise, Inc., Shandong Aoweite Biotechnology Co., Ltd., Fine Chemicals Inc., and Futureco Bioscience S.A.

Key Developments:

In April 2025, BASF and Hagihara Industries, Inc., have joined forces to develop highly durable polyolefin yarns for artificial turf used in sports arenas, including football stadiums, baseball fields, and tennis courts. After three years of collaborative research and development, the two companies have created an advanced formulation with a series of Tinuvin® grades that significantly enhances the durability of synthetic grass.

In February 2025, Syngenta and Ceres Biotics sign agreement to bring innovative biological solution to farmers globally. VIXERAN® enables farmers to optimize nitrogen fertilizer use and transition to more sustainable on-farm practices.

Product Types Covered:

Coatings

Cleaners

Fungicides

Sprout Inhibitors

Ripening Agents

Ethylene Blockers

Sanitizers & Disinfectants

Other Product Types

Crop Types Covered:

Fruits

Vegetables

Grains & Cereals

Flowers & Ornamentals

Other Crop Types

Origins Covered:

Natural

Synthetic

Applications Covered:

Post-Harvest Handling

Storage & Transportation

Ripening & Shelf-Life Extension

Disinfection & Pest Control

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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