

Paraquat Market Forecasts to 2032 – Global Analysis By Product Type (Paraquat Aqueous Solution, Paraquat Soluble Granule, Paraquat Water Soluble Gel and Other Product Types), Crop Type, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Paraquat Market is accounted for \$1.6 billion in 2025 and is expected to reach \$2.2 billion by 2032 growing at a CAGR of 4.8% during the forecast period. Paraquat is a highly potent herbicide widely used in agriculture for controlling unwanted vegetation. As a non-selective contact herbicide, it eliminates most plant species upon direct exposure by disrupting photosynthesis, leading to rapid dehydration. Due to its extreme toxicity, even minimal exposure whether through ingestion, inhalation, or skin contact can be fatal to humans. Prolonged exposure has been associated with severe health risks, including lung damage and a potential link to Parkinson's disease. While many countries have imposed strict regulations or bans on its use, Paraquat remains prevalent in certain regions. Proper handling, protective equipment, and adherence to safety protocols are essential to minimize risks.

Market Dynamics:

Driver:

High herbicidal efficiency & weed resistance to glyphosate

As weed resistance to conventional herbicides increases, farmers are relying on Paraquat for its fast-acting mechanism and effectiveness in controlling stubborn plant species. This demand is further fueled by the need for efficient crop protection methods that enhance yield and minimize losses. Additionally, its role in pre-harvest crop

desiccation has strengthened its position in the market, particularly in regions with intensive farming practices.

Restraint:

Highly toxic to humans and animals, with accidental and intentional poisonings

Accidental exposure through inhalation, ingestion, or skin contact can result in fatal poisoning, raising concerns among health authorities. Additionally, cases of intentional poisoning have highlighted the dangers associated with its availability, prompting calls for tighter restrictions. As a result, several countries have imposed bans or phased out its usage, limiting market growth in regions with stringent environmental and health regulations.

Opportunity:

Advancements in integrated weed management (IWM) systems

Combining Paraquat with precision farming techniques and selective herbicide application can improve efficiency while reducing environmental impact. Additionally, research into safer formulations and improved application methods is helping address safety concerns associated with its use. As farming transitions toward smarter solutions, Paraquat's role in comprehensive weed control strategies is expected to remain relevant, particularly in large-scale commercial agriculture.

Threat:

Growing availability of bio-herbicides and safer chemical alternatives

Growing awareness of sustainable farming and environmental conservation is driving demand for non-toxic herbicides with minimal ecological consequences. Additionally, advancements in organic weed control methods are reducing dependence on synthetic chemicals, prompting a shift toward eco-friendly alternatives. Regulatory pressures and evolving consumer preferences for safer agricultural inputs may further challenge Paraquat's market expansion in the coming years.

Covid-19 Impact:

The COVID-19 pandemic impacted the Paraquat market by disrupting supply chains

and altering agricultural production trends. While initial lockdowns led to logistical challenges, the demand for effective weed management solutions remained steady as food security became a priority. Farmers sought reliable herbicides to ensure consistent crop yields amid labor shortages, sustaining Paraquat's usage across various regions.

The paraquat aqueous solution segment is expected to be the largest during the forecast period

The paraquat aqueous solution segment is expected to account for the largest market share during the forecast period due to its ease of application and effectiveness in weed control. Its widespread adoption across large-scale farming operations is driven by its rapid action and compatibility with modern spraying systems. Additionally, innovations in liquid formulations are enhancing usability, making Paraquat an efficient choice for both pre-emergent and post-emergent weed management.

The desiccant segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the desiccant segment is predicted to witness the highest growth rate owing to the increasing need for efficient crop drying solutions before harvest has boosted demand for Paraquat-based desiccants. Farmers utilize these solutions to accelerate crop maturation, ensuring uniform drying and improved yield quality. This trend is particularly significant in grain-producing regions where timely harvest cycles are critical.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share supported by the region's well-established agricultural sector and reliance on advanced farming techniques. Large-scale commercial farms and extensive row-crop cultivation drive the adoption of effective herbicides like Paraquat, maintaining strong demand. Additionally, investments in research and development are facilitating the improvement of herbicide formulations, ensuring compliance with regulatory guidelines.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR because of the expanding agricultural activities, rising food demand, and

increasing herbicide adoption contribute to the rapid growth. Countries like China, India, and Indonesia are seeing heightened usage due to their vast farming landscapes and the need for cost-effective weed management solutions. Government initiatives supporting enhanced agricultural productivity and weed control practices further reinforce market expansion across the region.

Key players in the market

Some of the key players in Paraquat Market include ADAMA Agricultural Solutions Ltd., AgFarm, Bayer AG, Canary Agro Chemicals Private Limited, Corteva, Dhanuka Agritech Ltd., FMC, Hubei Sanonda Co., Ltd, Jiangsu Yangnong Chemical, Nantong Jiangshan Agrochemical, Shandong Luba Chemical, Sinon Corporation, Syngenta Crop Protection AG, Toshi Automatic Systems, UPL Ltd, Willowood USA, and Zhejiang Xinan Chemical Industrial.

Key Developments:

In February 2025, yngenta acquired a repository of natural compounds and genetic strains from Novartis to enhance its biologic crop protection development. This strategic acquisition includes leasing a fermentation pilot plant and laboratories in Basel.

In November 2024, Dhanuka Agritech Ltd. signed an agreement with Bayer AG, Germany, for the acquisition of active ingredients named 'Iprovalicarb' and 'Triadimenol'. This strategic move aims to expand Dhanuka's product portfolio and strengthen its position in the agrochemical market.

Product Types Covered:

Paraquat Aqueous Solution

Paraquat Soluble Granule

Paraquat Water Soluble Gel

Other Product Types

Crop Types Covered:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Plantation Crops

Other Crop Types

Applications Covered:

Herbicide

Desiccant

Defoliant

Plant Growth Regulator

Non-Agricultural Weed Control

Farms

Other Applications

End Users Covered:

Commercial Farmers

Agrochemical Distributors

Government & Municipal Bodies

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 2024, 2025, 2026, 2028, and 2032
- 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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