Glufosinate Market Report by Crop Type (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, and Others), Formulation Type (Aqueous Suspension, Liquid, Suspension Concentrate, Soluble (Liquid) Concentrate, and Others), Application (Herbicides, Fungicides, Desiccant, Defoliant, and Others), and Region 2025-2033

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Report description:

The global glufosinate market size reached USD 2.6 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 5.0 Billion by 2033, exhibiting a growth rate (CAGR) of 6.97% during 2025-2033. The market is witnessing stable growth, mainly driven by escalating demand for effective herbicides, especially in agriculture. In addition, increased adoption of genetically modified crops, strict regulations on alternative herbicides, and advancements in sustainable farming practices further bolster the market's expansion across key regions.

Glufosinate Market Trends:
Increasing Adoption of Genetically Modified Crops
One of the key trends in the global glufosinate market is the increasing cultivation of genetically modified (GM) crops. As per industry reports, global area for GM cultivation increased by 1.9% in 2023, reaching 206.26 million. Furthermore, GM crops growth was chiefly driven by South America. Glufosinate is predominantly leveraged in GM crops that are produced to have herbicide-resistant characteristic, such as cotton, corn, and soybean. Moreover, as more nations are gradually approving the commercial utilization of GM crops, the requirement for glufosinate is notably escalating. In addition, the efficacy of this herbicide in controlling a broad range of weeds without causing any damage to the crops establishes it as a preferable choice among cultivators, significantly fueling market expansion and contributing to the positive glufosinate market outlook.
Heightened Emphasis on Sustainable Agricultural Practices
A major emerging trend that is actively steering the glufosinate market is sustainability. As the environmental concerns and regulatory restrictions are intensifying globally, the agricultural businesses and farmers are currently emphasizing on utilizing

herbicides that have minimum environmental impact. As a result, glufosinate is rapidly gaining momentum due to its lower residual impacts and excellent biodegradability in comparison to alternative herbicides. As per industry reports, glufosinate has a proven record of 30 years of safe utilization as it remains inactive in soil and is quickly degraded by micro-organisms. Moreover, this herbicide has facilitated the healthy cultivation of more than 100 crops. In addition, it facilitates the no-till farming, a technique that aids the conservation of water and soil. This magnified alignment with sustainable agricultural practices positions glufosinate as a preferred solution in crop markets seeking environmentally friendly weed management.

Innovations in Herbicide Resistance Management

The management of herbicide resistance is a crucial trend shaping the global glufosinate market. With weeds rapidly developing resistance to herbicides, such as glyphosate, farmers are increasingly opting for glufosinate as an efficient alternative. According to a research article published in the journal Agronomy, in April 2023, E. colona, one of the most difficult to control weed, which can lower soyabean yield by 12 to 27kg per hectare, is found to be resistant against glyphosate. Resultantly, this has prompted the adoption of glufosinate. In addition, the ability of glufosinate to control weed species with resistant properties has fueled its extensive usage, especially in regions where resistance is the prime challenge. Moreover, this inclination is encouraging research and development efforts in herbicide development, with major companies emphasizing on enhancing the efficacy of glufosinate and formulating new products to manage resistant while adhering to sustainability.

Glufosinate Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on crop type, formulation type, and application.

Breakup by Crop Type:

- Cereals and Grains
- Oilseeds and Pulses
- Fruits and Vegetables
- Others

Oilseeds and pulses accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the crop type. This includes cereals and grains, oilseeds and pulses, fruits and vegetables, and others. According to the report, oilseeds and pulses represented the largest segment.

Oilseeds and pulses is the leading segment in the global glufosinate market mainly due to their widespread cultivation globally. The escalating demand for oilseed crop, including sunflower, canola, and soyabean, has propelled the demand for herbicides with high efficacy, such as glufosinate. Moreover, such crops profit substantially from glufosinate's capability to inhibit a broad range of weeds, enhancing both quality and yield. In addition, the heightening cultivation of genetically modified (GM) oilseeds further solidifies this segment's domination in the global glufosinate market.

Breakup by Formulation Type:

- Aqueous Suspension
- Liquid
- Suspension Concentrate
- Soluble (Liquid) Concentrate
- Others

Soluble (liquid) concentrate holds the largest share of the industry

A detailed breakup and analysis of the market based on the formulation type have also been provided in the report. This includes aqueous suspension, liquid, suspension concentrate, soluble (liquid) concentrate, and others. According to the report, soluble (liquid) concentrate accounted for the largest market share.

Soluble (liquid) concentrate is the dominant formulation type in the global market, preferred for its exceptional efficiency and ease of application. This formulation facilitates the easy blending with water, offering homogenous coverage and better crop

infiltration. In addition, it is also preferred for its broad-scale farming operations where effective and quick herbicide application is requisite. Moreover, the requirement for liquid concentrates is fueling, chiefly driven by their excellent compatibility with numerous spraying technologies, establishing them as an ideal choice among commercial cultivators as well as farmers.
Breakup by Application:
- Herbicides
- Fungicides
- Desiccant
- Defoliant
- Others

Herbicides represent the leading market segment
The report has provided a detailed breakup and analysis of the market based on the application. This includes herbicides, fungicides, desiccant, defoliant, and others. According to the report, herbicides represented the largest segment.
Herbicides account for the largest application segment, principally driven by the accelerating demand for efficient weed management in farming practices. Glufosinate is extensively leveraged as a non-selective variety of herbicide, providing control over a wide spectrum of weeds in numerous crop types, such as pulses, oilseeds, and cereals. Moreover, the amplifying adoption of herbicide is further boosted by its crucial role in countering weed resistance and its efficacy in no-till agricultural practices. In addition, this application segment is expanding significantly as global need for high-yield and sustainable crop production soars.
Breakup by Region:
- 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

North America leads the market, accounting for the largest glufosinate market share
The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan,

India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America represents the largest regional market for glufosinate.
North America has emerged as the leading regional market for glufosinate, mainly driven by the widespread cultivation of GM crops, especially in the countries like Canada and the U.S. According to industry reports, the U.S. accounts for the 38% of the global GM crop cultivation. Moreover, five countries grow 91% of total GM crops around the world, including Canada and the U.S. The region's expansive agricultural sector, combined with elevated utilization rates of herbicides for efficient weed management, fortifies its leadership. In addition, North America's stringent regulatory standards endorse the usage of glufosinate as a safer alternative to various prohibited herbicides. Furthermore, the escalating awareness regarding sustainable cultivation methods and the presence of major companies further reinforce the region's position as the dominant regional market.

Competitive Landscape:
- The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major market players in the glufosinate industry include BASF SE, DuPont de Nemours Inc., Hebei Veyong Bio-Chemical Co. Ltd (Limin Group Co. Ltd.), Jiangsu Sevencontinent Green Chemical Company Limited, LIER Chemical Co. Ltd., Nufarm, SinoHarvest, UPL Limited, and YongNong BioSciences CO. LTD.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

- The global market is witnessing intense competition, with several well-established players striving for capturing maximum market share. Such companies are also emphasizing on extension into untapped markets, product advancement, expansion of product applications. For instance, in May 2024, U.S. EPA approved the utilization of INTERLINE herbicide, produced by UPL Ltd., for the oilseed crop Camelina sativa. This approval aided in the expansion of INTERLINE's application, which contains glufosinate for weed control. Moreover, strategic acquisitions, partnerships, and innovations in herbicide development are prevalent tactics to sustain a competitive advantage. In addition, heavy investment in research and development ventures, especially for sustainable and bio-based herbicide solutions, is amplifying competition. The market remains progressive as companies seek to improve product effectiveness and address the heightening agricultural needs.

Key Questions Answered in This Report
1.What was the size of the global glufosinate market in 2024?
2.What is the expected growth rate of the global glufosinate market during 2025-2033?
3.What are the key factors driving the global glufosinate market?
4.What has been the impact of COVID-19 on the global glufosinate market?
5.What is the breakup of the global glufosinate market based on the crop type?
6.What is the breakup of the global glufosinate market based on the formulation type?
7.What is the breakup of the global glufosinate market based on the application?
8.What are the key regions in the global glufosinate market?
9.Who are the key players/companies in the global glufosinate market?

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