

Global Tembotrione Herbicide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Tembotrione Herbicide market size was valued at US\$ 378 million in 2025 and is forecast to a readjusted size of US\$ 575 million by 2032 with a CAGR of 6.2% during review period.

Tembotrione (CAS 335104-84-2) is a selective, systemic post-emergence herbicide belonging to the triketone chemical class, functioning as a 4-hydroxyphenylpyruvate dioxygenase (HPPD) inhibitor. It was developed by Bayer and first launched in 2007. The active ingredient is synthesized by adding trifluoroethoxy to the structure of sulcotrione, resulting in increased hydrophobicity, membrane permeability, anti-metabolic stability, and broader weed control spectrum compared to mesotrione and sulcotrione. The upstream segment comprises raw material suppliers (chemical intermediates, trifluoroethoxy reagents, and specialty solvents) and technical-grade active ingredient manufacturers. The midstream segment involves formulation processors who convert technical-grade tembotrione into end-user products such as suspension concentrates (SC, typically 34.4% or 68g/L), and combination formulations with other herbicides like thienencarbazone-methyl. The downstream segment encompasses distribution channels (agricultural cooperatives, retail agro-dealers) and end-users including corn growers, agricultural service providers, and large-scale row crop farms. The average ex-factory price for technical-grade tembotrione is US\$ 105,000 per ton, with global sales volume reaching 3.5 thousand tons in 2025. Industry gross margins typically range between 20% and 30%, reflecting the product's patented technology and limited competition during the patent-protected period.

The global tembotrione herbicide market is experiencing robust growth driven by several key trends. A primary factor shaping the industry is the increasing adoption of

HPPD inhibitor herbicides as effective resistance management tools. As traditional herbicide chemistries face mounting resistance issues across major corn-growing regions, tembotrione's unique mode of action (HRAC Group 27 / WSSA Group 27) positions it as a valuable component in integrated weed management programs. Another significant trend is the geographic expansion of tembotrione usage, with Latin America emerging as the most important regional market, followed by Europe and the North American Free Trade Area. India has also developed into a notable market, with annual sales exceeding US\$20 million, accounting for approximately 10% of the global market, where India imports tembotrione technical from the United States and processes it into formulations locally. The market is also witnessing a shift toward combination formulations, with products combining tembotrione with other herbicides such as thien carbazon-methyl offering enhanced spectrum of control and built-in resistance management benefits. Concurrently, regulatory dynamics are reshaping the competitive landscape, as the compound's patent has expired in China (since 2019), leading to increased generic competition and new market entrants, particularly from Chinese manufacturers developing export-oriented technical-grade production capabilities. The market is also benefiting from the strong performance of tembotrione in corn production systems, where it offers excellent crop safety, broad-spectrum weed control including both grasses and broadleaf weeds, and strong resistance to rain erosion. Unlike some other corn herbicides, tembotrione demonstrates no residual activity that could harm subsequent rotational crops, providing flexibility for growers in crop rotation planning. Finally, the sustained global demand for corn—driven by animal feed, biofuel production, and food applications—continues to support the underlying need for effective post-emergence weed control solutions, further reinforcing the market growth trajectory for tembotrione.

This report is a detailed and comprehensive analysis for global Tembotrione Herbicide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tembotrione Herbicide market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Tembotrione Herbicide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Tembotrione Herbicide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Tembotrione Herbicide market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Tembotrione Herbicide

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Tembotrione Herbicide market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bayer Crop Science, Best Agrolife Limited, Jinan Tianbang Chemicals Co., Ltd., Chengwu Taihe Chemicals Co., Ltd., Shandong Hailier Chemicals Co., Ltd., Anhui Jiuyi Agriculture Co., Ltd., Shandong Weifang Runfeng Chemicals Co., Ltd., Limin Chemicals Co., Ltd., Jiangxi Tianyu Chemical Industry Co., Ltd., Jiangxi Zhonghe Biotechnology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Tembotrione Herbicide market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This

analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Suspension Concentrate

Dispersible Oil Suspension Concentrate

Market segment by Price Tier

Premium Technical Grade (>US\$ 110,000/ton)

Standard Technical Grade (US\$95,000-US\$110,000/ton)

Generic Technical Grade (

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