

Glyoxal Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Textile Industry, Paper Industry, Oil & Gas Industry, Cosmetics & Personal Care, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Glyoxal Market was valued at USD 349.77 million in 2024 and is projected to reach USD 434.26 million by 2030, growing at a CAGR of 4.22% during the forecast period. Glyoxal, a dialdehyde organic compound, is valued for its crosslinking capabilities, enhancing the durability and chemical resistance of products across various industries. As sectors prioritize performance optimization and regulatory compliance, the demand for glyoxal-based solutions remains strong. The expanding textile industry in emerging economies like India, China, and Bangladesh significantly drives market growth, where glyoxal is used to enhance wrinkle resistance and dimensional stability of fabrics. Additionally, the paper and packaging industries utilize glyoxal to improve wet strength and surface characteristics of paper products. Its application in oilfield chemicals as a biocide and corrosion inhibitor further boosts demand in the energy sector. While regulatory scrutiny and environmental concerns pose challenges, ongoing innovations and the steady expansion of industrial applications support the market's positive trajectory.

Key Market Drivers

Growth in Textile Industry

The global glyoxal market is experiencing notable growth, largely driven by the rapid expansion of the textile industry. Global textile fiber production increased from approximately 33 million metric tons in 1975 to 109 million metric tons in 2020, with projections estimating 160 million metric tons by 2030. Glyoxal is crucial in textile finishing, where it enhances wrinkle resistance and fabric stability. The rising consumption of cotton and blended fabrics, particularly in major producing countries like China, India, and the United States, further propels glyoxal demand. As of 2024, global cotton supply, including stocks, was estimated at 224 million bales, with cotton maintaining its role as the most widely used natural fiber. Glyoxal's use as a cross-linking agent in

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cellulose fibers improves garment durability and shrink resistance, aligning with evolving consumer preferences for easy-care and long-lasting clothing. The booming ready-to-wear segment and the growth of fast fashion continue to amplify demand for textile chemicals, fueling the glyoxal market.

Key Market Challenges

Volatility in Raw Material Prices

The global glyoxal market faces a significant challenge in the form of raw material price volatility. Glyoxal production heavily depends on upstream petrochemical derivatives such as ethylene glycol, acetaldehyde, and formaldehyde, whose prices fluctuate due to dynamic crude oil markets, geopolitical factors, and supply chain disruptions. Such price instability complicates production planning, margin management, and pricing strategies for glyoxal manufacturers. Rising input costs can erode profitability, reduce competitiveness, and discourage customer loyalty, especially in price-sensitive sectors like textiles and paper. Additionally, abrupt spikes in raw material costs can delay manufacturing cycles, disrupt inventory levels, and hinder timely product delivery, creating operational uncertainties across the value chain.

Key Market Trends

Growing Innovations in the Production of Glyoxal

Technological advancements are reshaping the global glyoxal market, with innovations focusing on production efficiency and environmental sustainability. Traditional glyoxal production involves the gas-phase oxidation of ethylene glycol using silver or copper catalysts. Recent improvements, including the use of copper-silver alloy catalysts, have increased conversion rates and reduced impurity levels, resulting in glyoxal products with lower formaldehyde content to meet stringent regulatory standards. Biotechnological methods are also emerging as sustainable alternatives, leveraging enzymatic reactions to produce glyoxal from ethylene glycol under mild conditions, reducing energy consumption and by-product formation. Initiatives like GLYRETRO under the ESA S5p Innovation project are further advancing scientific understanding and applications related to glyoxal. These technological developments are fostering a greener and more efficient pathway for glyoxal production, aligning with global sustainability goals.

Key Market Players

- BASF SE
- Amzole India Pvt. Ltd.
- Zhonglan Industry Co., Ltd
- Hubei Hongyuan Pharmaceutical
- Taicang Guangze Fine Chemical Co., Ltd.
- Fuyang Fengchi Chemical Co., Ltd.
- Sancai Industry Co., Ltd
- Hubei Shunhui Bio-Technology Co., Ltd.
- Jinan Huashihang Chemical Co., Ltd.
- Anhui Fitech Materials Co., Ltd.

Report Scope:

In this report, the Global Glyoxal Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Glyoxal Market, By Sales Channel:

- o Direct
- o Indirect

- Glyoxal Market, By End Use:

- o Textile Industry
- o Paper Industry
- o Oil & Gas Industry
- o Cosmetics & Personal Care
- o Others

- Glyoxal Market, By Region:

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o North America

United States

Canada

Mexico

o Europe

France

United Kingdom

Italy

Germany

Spain

o Asia Pacific

China

India

Japan

Australia

South Korea

o South America

Brazil

Argentina

Colombia

o Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Glyoxal Market.

Available Customizations:

Global Glyoxal Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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