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Global Epoxidized Vegetable Oils Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Epoxidized Vegetable Oils market size is expected to reach $ 2690 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

Epoxidized vegetable oils (EVOs) are bio-based chemical compounds produced through the epoxidation of unsaturated vegetable oils such as soybean oil, linseed oil, palm oil, and canola oil. The epoxidation process converts carbon-carbon double bonds into highly reactive three-membered oxirane rings using peracids or other oxidizing agents, creating versatile intermediates for various industrial applications. EVOs are characterized by their oxirane oxygen content, iodine value, thermal stability, and biodegradability. They serve as primary plasticizers and heat stabilizers for polyvinyl chloride (PVC), offering a non-toxic, phthalate-free alternative to traditional petrochemical-based plasticizers. Key types include epoxidized soybean oil (ESBO), epoxidized linseed oil (ELO), and epoxidized palm oil (EPO). Beyond PVC applications, EVOs are utilized as lubricant base oils, surfactants, polyol precursors for polyurethane production, UV-curable resins, and as intermediates for epoxy resins and biolubricants. From a value chain perspective, upstream includes vegetable oil feedstock suppliers (soybean, linseed, palm, canola), oxidizing agents, and catalyst manufacturers; midstream involves epoxidation reaction, purification, quality testing (oxirane content, iodine value, acid value), and product formulation; downstream demand spans PVC compounding and processing, coatings and adhesives, lubricants, cosmetics and personal care, and pharmaceutical intermediates. In 2025, the average selling price is approximately US$2,145 per ton, global sales volume is about 660k tons, and gross margins generally range from 15% to 25%, driven by raw material costs (vegetable oils, oxidizing agents), epoxidation process efficiency, and purity specifications.

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The epoxidized vegetable oils market is experiencing robust growth driven by stringent environmental regulations phasing out phthalate plasticizers, increasing demand for bio-based sustainable chemicals, and expanding applications across PVC, coatings, lubricants, and pharmaceutical industries .

Food Packaging as the Largest End-Use Segment

Food contact applications represent the largest and most regulated segment for epoxidized vegetable oils. ESBO is approved by FDA and EFSA for use in food-contact materials, making it the standard plasticizer and stabilizer for PVC gaskets used in metal can closures (for foods, beverages, and infant formula). The segment's 57.9% market share reflects the critical importance of non-toxic, migration-resistant formulations in food safety compliance .

Technical Performance: Enhancing Oxirane Content and Stability

High-performance applications demand superior product specifications. Premium-grade epoxidized oils require controlled oxirane oxygen content above 6.0% for use in UV-curable coatings and high-temperature PVC processing . Innovations in epoxidation technology, including the development of heterogeneous catalysts for improved conversion and selectivity, are enhancing yield and product quality . The conversion of vegetable oils to epoxidized derivatives removes carbon-carbon double bonds, significantly improving thermal and oxidative stability for demanding applications such as biolubricants .

Diversification Across Multiple Industries

Beyond PVC plasticization, epoxidized vegetable oils serve as versatile chemical intermediates. They are precursors for polyols in polyurethane production, lubricant base oils, surfactants, and UV-curable resins . In the lubricant industry, epoxidized oils provide good contact lubrication, high viscosity index, and high flash point while offering biodegradability advantages over mineral oils . The ring-opening reactions of epoxides enable the synthesis of diverse value-added chemicals including carbonyl compounds, glycols, and polymer additives .

This report studies the global Epoxidized Vegetable Oils production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Epoxidized

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Vegetable Oils and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Epoxidized Vegetable Oils that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Epoxidized Vegetable Oils total production and demand, 2021-2032, (Kilotons)
Global Epoxidized Vegetable Oils total production value, 2021-2032, (USD Million)
Global Epoxidized Vegetable Oils production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Epoxidized Vegetable Oils consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Epoxidized Vegetable Oils domestic production, consumption, key domestic manufacturers and share
Global Epoxidized Vegetable Oils production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Epoxidized Vegetable Oils production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Epoxidized Vegetable Oils production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Epoxidized Vegetable Oils market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cargill, Incorporated, Dow Inc., CHS Inc., Galata Chemicals, LLC, Makwell Plasticizers Pvt. Ltd., DuPont de Nemours, Inc., Ferro Corporation, ADEKA Corporation, Valtris Specialty Chemicals, Inbra Ind?strias Qu?micas, Ltda., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Epoxidized Vegetable Oils market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton)

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by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Epoxidized Vegetable Oils Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Epoxidized Vegetable Oils Market, Segmentation by Type:

Standard Grade (5.0% – 5.5%)

High-Grade (5.5% – 6.0%)

Premium / UV Grade (> 6.0%)

Global Epoxidized Vegetable Oils Market, Segmentation by Iodine Value:

Low Iodine Value (
Medium Iodine Value (5-10)

High Iodine Value (> 10)

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Global Epoxidized Vegetable Oils Market, Segmentation by Product Form:

Liquid (Bulk/Drums)

Solid (Flakes/Pellets)

Global Epoxidized Vegetable Oils Market, Segmentation by Application:

Food & Beverage Packaging

Building & Construction

Wire & Cable

Automotive & Transportation

Medical & Healthcare

Consumer Goods & Toys

Other

Companies Profiled:

Cargill, Incorporated

Dow Inc.

CHS Inc.

Galata Chemicals, LLC

Makwell Plasticizers Pvt. Ltd.

DuPont de Nemours, Inc.

Ferro Corporation

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ADEKA Corporation

Valtris Specialty Chemicals

Inbra Ind?strias Qu?micas, Ltda.

Hairma Chemicals (GZ) Ltd.

Shenzhen Kaiqi Chemicals Co., Ltd.

Changchun Corporation

Nanya Plastics Corporation

Hebei Jingu Plasticizer Co., Ltd.

Shandong Longkou Longda Chemical Industry Co., Ltd.

Shenzhen Jianjing Plastic Additives Co., Ltd.

TRAQUISA (Transformaciones Qu?mico Industriales, S.L.)

Key Questions Answered:
1. How big is the global Epoxidized Vegetable Oils market?
2. What is the demand of the global Epoxidized Vegetable Oils market?
3. What is the year over year growth of the global Epoxidized Vegetable Oils market?
4. What is the production and production value of the global Epoxidized Vegetable Oils market?
5. Who are the key producers in the global Epoxidized Vegetable Oils market?
6. What are the growth factors driving the market demand?

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