

Propylene Carbonate Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Electrolytic Solvent, Cosmetics & Personal Care, Plastics & Polymers, Reagents, Fuel Additives, Others), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Propylene Carbonate Market was valued at USD 419.80 million in 2024 and is projected to reach USD 515.79 million by 2030, growing at a CAGR of 2.48% during the forecast period. Propylene carbonate is a biodegradable, non-toxic solvent widely adopted across industries including lithium-ion batteries, personal care, pharmaceuticals, and paints and coatings. Its favorable safety profile and environmental compatibility have positioned it as a preferred alternative to traditional solvents. Endorsements from regulatory agencies such as the U.S. Environmental Protection Agency (EPA) further support its adoption in sustainable product formulations.

Despite these advantages, the market faces limitations such as raw material cost volatility and competition from alternative solvents. Additionally, environmental compliance requirements may lead to increased production and operational expenditures. However, ongoing technological advancements, greater ecological awareness, and the expanding role of propylene carbonate in emerging sectors are expected to sustain market momentum in the coming years.

Key Market Drivers

Growth in Cosmetic Industry

The expanding global cosmetic industry is a major factor contributing to the demand for propylene carbonate. As beauty and personal care products continue to evolve with an emphasis on wellness and self-care, manufacturers are turning to high-performance ingredients like propylene carbonate. This solvent is widely used in skincare, haircare, and makeup formulations due to its excellent solvency, low toxicity, and capacity to enhance product stability and texture.

With the cosmetics market projected to approach USD 140 billion by 2030, there is a notable shift toward clean, sustainable ingredients. Propylene carbonate fits this demand due to its eco-friendly profile and skin compatibility. Clinical studies show that even at concentrations up to 20%, it is generally non-sensitizing and only moderately irritating. As consumer preference leans toward non-toxic and biodegradable components, the adoption of propylene carbonate in cosmetics is expected to rise steadily.

Key Market Challenges

Raw Material Price Volatility

A key challenge facing the propylene carbonate market is the instability of raw material prices, particularly propylene, which is derived from petroleum. Variations in global crude oil prices—driven by geopolitical tensions, supply-demand imbalances, and economic fluctuations—can significantly impact the production cost of propylene carbonate.

This unpredictability complicates budgeting, pricing strategies, and long-term planning for manufacturers. It also places pressure on profit margins and can lead to price hikes for end consumers. As a result, price-sensitive sectors may seek alternative solvents or reduce usage, affecting overall market demand.

Key Market Trends

Surge in Lithium-Ion Battery Demand

The increasing global focus on electric vehicles and renewable energy is fueling demand for lithium-ion batteries, in which propylene carbonate plays a critical role as an electrolyte solvent. Government policies promoting zero-emission vehicles—such as

mandates in Canada and the UK targeting 60–80% zero-emission light-duty vehicle sales by 2030—are accelerating EV adoption.

Propylene carbonate enhances battery stability and efficiency, making it a valuable material in energy storage technologies. As production scales t%li%meet global EV and energy storage demand, the use of propylene carbonate in battery applications is expected t%li%grow, reinforcing its long-term market potential.

Key Market Players

Balaji Amines Limited

Unilong Industry Co., Ltd

Jinan Finer Chemical Co., Ltd

Qingda%li%Aspirit Chemical Co., Ltd

Chemichase Chemical Co., Ltd

Shandong Longze Chemical Co., Ltd

Lihua Yiweiyuan Chemical Co., Ltd

TIANJIN ZHONGXIN CHEMTECH CO., LTD. (ZX CHEMTECH)

Shandong Shida Shenghua Chemical Group

Shandong Depu Chemical Industry Science and Technology Co., Ltd

Report Scope

In this report, the Global Propylene Carbonate Market has been segmented int%li%the following categories, in addition t%li%the industry trends which have als%li%been detailed below:

Propylene Carbonate Market, By Sales Channel:

Direct

Indirect

Propylene Carbonate Market, By End Use:

Electrolytic Solvent

Cosmetics & Personal Care

Plastics & Polymers

Reagents

Fuel Additives

Others

Propylene Carbonate Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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

Available Customizations

Global Propylene Carbonate Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The

Propylene Carbonate Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sale...

following customization options are available for the report:

Company Information

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

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. IMPACT OF COVID-19 ON GLOBAL PROPYLENE CARBONATE MARKET

5. GLOBAL PROPYLENE CARBONATE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Sales Channel (Direct, Indirect)
 - 5.2.2. By End Use (Electrolytic Solvent, Cosmetics & Personal Care, Plastics & Polymers, Reagents, Fuel Additives, Others)
 - 5.2.3. By Region

- 5.2.4. By Company (2024)
- 5.3. Market Map

6. NORTH AMERICA PROPYLENE CARBONATE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Sales Channel
 - 6.2.2. By End Use
 - 6.2.3. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Propylene Carbonate Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Sales Channel
 - 6.3.1.2.2. By End Use
 - 6.3.2. Mexico Propylene Carbonate Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Sales Channel
 - 6.3.2.2.2. By End Use
 - 6.3.3. Canada Propylene Carbonate Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Sales Channel
 - 6.3.3.2.2. By End Use

7. EUROPE PROPYLENE CARBONATE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Sales Channel
 - 7.2.2. By End Use
 - 7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. France Propylene Carbonate Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Sales Channel

7.3.1.2.2. By End Use

7.3.2. Germany Propylene Carbonate Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Sales Channel

7.3.2.2.2. By End Use

7.3.3. United Kingdom Propylene Carbonate Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Sales Channel

7.3.3.2.2. By End Use

7.3.4. Italy Propylene Carbonate Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Sales Channel

7.3.4.2.2. By End Use

7.3.5. Spain Propylene Carbonate Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Sales Channel

7.3.5.2.2. By End Use

8. ASIA PACIFIC PROPYLENE CARBONATE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Sales Channel

8.2.2. By End Use

8.2.3. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Propylene Carbonate Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Sales Channel

8.3.1.2.2. By End Use

8.3.2. India Propylene Carbonate Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Sales Channel

8.3.2.2.2. By End Use

8.3.3. South Korea Propylene Carbonate Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Sales Channel

8.3.3.2.2. By End Use

8.3.4. Japan Propylene Carbonate Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Sales Channel

8.3.4.2.2. By End Use

8.3.5. Australia Propylene Carbonate Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Sales Channel

8.3.5.2.2. By End Use

9. SOUTH AMERICA PROPYLENE CARBONATE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Sales Channel

- 9.2.2. By End Use
- 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Propylene Carbonate Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Sales Channel
 - 9.3.1.2.2. By End Use
 - 9.3.2. Argentina Propylene Carbonate Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Sales Channel
 - 9.3.2.2.2. By End Use
 - 9.3.3. Colombia Propylene Carbonate Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Sales Channel
 - 9.3.3.2.2. By End Use

10. MIDDLE EAST AND AFRICA PROPYLENE CARBONATE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Sales Channel
 - 10.2.2. By End Use
 - 10.2.3. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Propylene Carbonate Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Sales Channel
 - 10.3.1.2.2. By End Use
 - 10.3.2. Saudi Arabia Propylene Carbonate Market Outlook
 - 10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Sales Channel
 - 10.3.2.2.2. By End Use
- 10.3.3. UAE Propylene Carbonate Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Sales Channel
 - 10.3.3.2.2. By End Use

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL PROPYLENE CARBONATE MARKET: SWOT ANALYSIS

14. PORTERS FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Balaji Amines Limited
 - 15.1.1. Business Overview
 - 15.1.2. Company Snapshot
 - 15.1.3. Products & Services
 - 15.1.4. Financials (As Reported)

- 15.1.5. Recent Developments
- 15.1.6. Key Personnel Details
- 15.1.7. SWOT Analysis
- 15.2. Unilong Industry Co., Ltd
- 15.3. Jinan finer chemical Co., Ltd
- 15.4. Qingdao Aspirit Chemical Co., Ltd
- 15.5. Chemichase Chemical Co.,Ltd
- 15.6. Shandong Longze Chemical Co.,Ltd
- 15.7. Lihua Yiweiyuan Chemical Co., Ltd.
- 15.8. TIANJIN ZHONGXIN CHEMTECH CO.,LTD.(ZX CHEMTECH)
- 15.9. Shandong Shida Shenghua Chemical Group
- 15.10. Shandong Depu Chemical Industry Science and Technology Co.,Ltd

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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