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Global Bio-based Emulsion Polymers Market Size study, by Material Composition (Acrylonitrile Butadiene Styrene, Ethylene Vinyl Acetate, Polyacrylic Acid, Polyamide), Application (Paints & Coatings, Adhesives, Textiles, Paper) and Regional Forecasts 2022-2032

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Abstracts

Global Bio-based Emulsion Polymers Market is valued approximately at USD 3.51 billion in 2023 and is anticipated to grow with an impressive CAGR of more than 7.9% over the forecast period 2024-2032. As industries worldwide pivot toward sustainable production and consumption, bio-based emulsion polymers are gaining significant traction as the future of green chemistry. Derived from renewable sources such as plant oils and biogenic monomers, these polymers serve as low-VOC, eco-friendly alternatives to conventional petroleum-based emulsions. Their applications span from paints & coatings to adhesives, textiles, and paper, offering functional parity with fossil-based polymers while dramatically improving the sustainability quotient across value chains.

The growing pressure from regulatory bodies to reduce volatile organic compounds and carbon emissions is playing a pivotal role in propelling the adoption of bio-based emulsion polymers across sectors. Additionally, major brand owners in the packaging, construction, and consumer goods industries are embracing these sustainable materials to fulfill their ESG goals and align with evolving consumer expectations. However, while market tailwinds are strong, challenges such as inconsistent raw material quality, compatibility with existing production equipment, and relatively higher costs are impeding full-scale commercial adoption, particularly in price-sensitive markets.

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To counter these hurdles, market players are increasingly investing in feedstock diversification and bio-refinery technologies to enhance yield efficiency and raw material availability. There is also a marked shift toward optimizing polymer architecture via controlled polymerization and copolymerization techniques—tailoring properties such as adhesion strength, elasticity, and thermal resistance to specific industrial needs. Moreover, collaborations between chemical companies, biopolymer start-ups, and research institutions are accelerating the development of next-gen formulations that not only outperform traditional polymers but are also easier to integrate into existing industrial workflows.

Bio-based emulsion polymers are being widely adopted in paints and coatings due to their superior film-forming capability, water resistance, and eco-credentials—making them a go-to solution in green building projects and low-emission architectural coatings. The adhesives segment is also experiencing notable growth, especially in packaging and woodworking industries. Meanwhile, textile and paper industries are increasingly opting for bio-based emulsions for processes like surface finishing, lamination, and sizing—driven by the demand for biodegradable and non-toxic alternatives. As supply chains evolve and economies of scale kick in, these applications are expected to scale rapidly across geographies.

From a regional lens, Europe held the largest market share in 2023, driven by stringent sustainability policies under the European Green Deal and strong R&D funding in green materials. North America followed closely, with the U.S. leading in both innovation and end-user adoption, especially in construction and consumer packaging. The Asia Pacific region is poised to register the fastest growth during the forecast period, fueled by rapid industrialization, supportive government bioeconomy strategies, and expanding manufacturing bases in China, India, and Southeast Asia. Latin America and the Middle East & Africa are anticipated to see steady growth as global brands push sustainable sourcing requirements in emerging markets.

Major market player included in this report are:

Dow Inc.

BASF SE

Arkema Group

Synthomer plc

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Celanese Corporation

Wacker Chemie AG

DIC Corporation

Omnova Solutions Inc.

Trinseo S.A.

Ashland Global Holdings Inc.

The Lubrizol Corporation

Mitsubishi Chemical Group Corporation

BioAmber Inc.

Aekyung Chemical Co., Ltd.

AkzoNobel N.V.

The detailed segments and sub-segment of the market are explained below:

By Material Composition:

Acrylonitrile Butadiene Styrene

Ethylene Vinyl Acetate

Polyacrylic Acid

Polyamide

By Application:

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- Paints & Coatings
- Adhesives
- Textiles
- Paper

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India

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- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico
- Rest of Latin America

Middle East & Africa

- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.

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Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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Contents

CHAPTER 1. GLOBAL BIO BASED EMULSION POLYMERS MARKET EXECUTIVE SUMMARY

1.1. Global Bio based Emulsion Polymers Market Size & Forecast (2022 2032)
1.2. Regional Summary
1.3. Segmental Summary
  1.3.1. By Material Composition (Acrylonitrile Butadiene Styrene, Ethylene Vinyl Acetate, Polyacrylic Acid, Polyamide)
  1.3.2. By Application (Paints & Coatings, Adhesives, Textiles, Paper)
1.4. Key Trends
1.5. Recession Impact
1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL BIO BASED EMULSION POLYMERS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

2.1. Research Objective
2.2. Market Definition
2.3. Research Assumptions
  2.3.1. Inclusion & Exclusion
  2.3.2. Limitations
  2.3.3. Supply Side Analysis
    2.3.3.1. Availability
    2.3.3.2. Infrastructure
    2.3.3.3. Regulatory Environment
    2.3.3.4. Market Competition
    2.3.3.5. Economic Viability (Consumer’s Perspective)
  2.3.4. Demand Side Analysis
    2.3.4.1. Regulatory Frameworks
    2.3.4.2. Technological Advancements
    2.3.4.3. Environmental Considerations
    2.3.4.4. Consumer Awareness & Acceptance
2.4. Estimation Methodology
2.5. Years Considered for the Study
2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL BIO BASED EMULSION POLYMERS MARKET DYNAMICS

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3.1. Market Drivers
3.1.1. Regulatory Pressure for Reduced VOC and Carbon Emissions
3.1.2. Growing Demand for Sustainable Production
3.1.3. Increasing Adoption by Major Brand Owners to Meet ESG Goals
3.2. Market Challenges
3.2.1. Inconsistent Raw Material Quality
3.2.2. Compatibility Issues with Existing Production Equipment
3.2.3. Higher Costs in Price Sensitive Markets
3.3. Market Opportunities
3.3.1. Investment in Feedstock Diversification and Bio refinery Technologies
3.3.2. Optimization of Polymer Architecture (Controlled Polymerization & Copolymerization)
3.3.3. Collaborations for Next Generation Formulation Development

CHAPTER 4. GLOBAL BIO BASED EMULSION POLYMERS MARKET INDUSTRY ANALYSIS

4.1. Porter’s 5 Force Model
4.1.1. Bargaining Power of Suppliers
4.1.2. Bargaining Power of Buyers
4.1.3. Threat of New Entrants
4.1.4. Threat of Substitutes
4.1.5. Competitive Rivalry
4.1.6. Futuristic Approach to Porter’s 5 Force Model
4.1.7. Porter’s 5 Force Impact Analysis
4.2. PESTEL Analysis
4.2.1. Political
4.2.2. Economical
4.2.3. Social
4.2.4. Technological
4.2.5. Environmental
4.2.6. Legal
4.3. Top Investment Opportunity
4.4. Top Winning Strategies
4.5. Disruptive Trends
4.6. Industry Expert Perspective
4.7. Analyst Recommendation & Conclusion

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CHAPTER 5. GLOBAL BIO BASED EMULSION POLYMERS MARKET SIZE & FORECASTS BY MATERIAL COMPOSITION 2022 2032

5.1. Segment Dashboard
5.2. Global Bio based Emulsion Polymers Market: Material Composition Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
  5.2.1. Acrylonitrile Butadiene Styrene
  5.2.2. Ethylene Vinyl Acetate
  5.2.3. Polyacrylic Acid
  5.2.4. Polyamide

CHAPTER 6. GLOBAL BIO BASED EMULSION POLYMERS MARKET SIZE & FORECASTS BY APPLICATION 2022 2032

6.1. Segment Dashboard
6.2. Global Bio based Emulsion Polymers Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
  6.2.1. Paints & Coatings
  6.2.2. Adhesives
  6.2.3. Textiles
  6.2.4. Paper

CHAPTER 7. GLOBAL BIO BASED EMULSION POLYMERS MARKET SIZE & FORECASTS BY REGION 2022 2032

7.1. North America Market
  7.1.1. U.S. Market
    7.1.1.1. Breakdown by Material Composition and Application
  7.1.2. Canada Market
7.2. Europe Market
  7.2.1. U.K. Market
  7.2.2. Germany Market
  7.2.3. France Market
  7.2.4. Spain Market
  7.2.5. Italy Market
  7.2.6. Rest of Europe Market
7.3. Asia Pacific Market
  7.3.1. China Market
  7.3.2. India Market

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7.3.3. Japan Market
7.3.4. Australia Market
7.3.5. South Korea Market
7.3.6. Rest of Asia Pacific Market
7.4. Latin America Market
7.4.1. Brazil Market
7.4.2. Mexico Market
7.4.3. Rest of Latin America Market
7.5. Middle East & Africa Market
7.5.1. Saudi Arabia Market
7.5.2. South Africa Market
7.5.3. Rest of Middle East & Africa Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis
8.1.1. Dow Inc.
8.1.2. BASF SE
8.1.3. Arkema Group
8.2. Top Market Strategies
8.3. Company Profiles
8.3.1. Dow Inc.
8.3.1.1. Key Information
8.3.1.2. Overview
8.3.1.3. Financial (Subject to Data Availability)
8.3.1.4. Product Summary
8.3.1.5. Market Strategies
8.3.2. Synthomer plc
8.3.3. Celanese Corporation
8.3.4. Wacker Chemie AG
8.3.5. DIC Corporation
8.3.6. Omnova Solutions Inc.
8.3.7. Trinseo S.A.
8.3.8. Ashland Global Holdings Inc.
8.3.9. The Lubrizol Corporation
8.3.10. Mitsubishi Chemical Group Corporation
8.3.11. BioAmber Inc.
8.3.12. Aekyung Chemical Co., Ltd.
8.3.13. AkzoNobel N.V.

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CHAPTER 9. RESEARCH PROCESS

9.1. Research Process
  9.1.1. Data Mining
  9.1.2. Analysis
  9.1.3. Market Estimation
  9.1.4. Validation
  9.1.5. Publishing
9.2. Research Attributes

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List Of Tables

LIST OF TABLES

TABLE 1. Global Bio based Emulsion Polymers Market, Report Scope
TABLE 2. Global Bio based Emulsion Polymers Market Estimates & Forecasts by Region 2022 2032 (USD Million/Billion)
TABLE 3. Global Bio based Emulsion Polymers Market Estimates & Forecasts by Material Composition 2022 2032 (USD Million/Billion)
TABLE 4. Global Bio based Emulsion Polymers Market Estimates & Forecasts by Application 2022 2032 (USD Million/Billion)
TABLE 5. Global Bio based Emulsion Polymers Market by Segment, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 6. Global Bio based Emulsion Polymers Market by Region, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 7. Global Bio based Emulsion Polymers Market by Segment, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 8. Global Bio based Emulsion Polymers Market by Region, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 9. Global Bio based Emulsion Polymers Market by Segment, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 10. Global Bio based Emulsion Polymers Market by Region, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 11. Global Bio based Emulsion Polymers Market by Segment, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 12. Global Bio based Emulsion Polymers Market by Region, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 13. Global Bio based Emulsion Polymers Market by Segment, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 14. Global Bio based Emulsion Polymers Market by Region, Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 15. U.S. Bio based Emulsion Polymers Market Estimates & Forecasts, 2022 2032 (USD Million/Billion)
TABLE 16. U.S. Bio based Emulsion Polymers Market Estimates & Forecasts by Segment 2022 2032 (USD Million/Billion)
TABLE 17. U.S. Bio based Emulsion Polymers Market Estimates & Forecasts by Segment 2022 2032 (USD Million/Billion)
TABLE 18. Canada Bio based Emulsion Polymers Market Estimates & Forecasts, 2022 2032 (USD Million/Billion)

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TABLE 19. Canada Bio based Emulsion Polymers Market Estimates & Forecasts by Segment 2022 2032 (USD Million/Billion)
TABLE 20. Canada Bio based Emulsion Polymers Market Estimates & Forecasts by Segment 2022 2032 (USD Million/Billion)
… (Final report contains more than 100 tables)

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