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Global Biosurfactants for Daily Chemicals Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G601109F41A3EN.html
Date: November 2026
Pages: 154
Price: US$ 4,480.00 (Single User License)
ID: G601109F41A3EN

Abstracts

The global Biosurfactants for Daily Chemicals market size is expected to reach $ 117 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Biosurfactants can be defined as the surface-active biomolecules produced by microorganisms with wide-range of applications. They were used to increase the surface area of hydrophobic substrates. Biosurfactants also used to increase the bioavailability of hydrophobic substrates through solubilization/desorption. They also regulate the attachment and removal of microorganisms from the surfaces. Due to the excellent properties of biosurfactants, they are widely used in the field of daily chemicals.

Key Findings

Global production of Biosurfactants for Daily Chemicals reached 6,575 tons in 2025

The weighted average selling price reached US$12,215 per ton in 2025

Rhamnolipids sophorolipids lipopeptides and MELs represent the principal commercial technology platforms

Home care and personal care require increasingly differentiated biosurfactant grades and formulation performance

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Industrial fermentation and downstream purification are becoming central competitive capabilities

Market Trends

The market is shifting from small-volume specialty biosurfactants toward industrially scalable ingredients designed specifically for consumer formulations. Rhamnolipids and sophorolipids are gaining commercial relevance in cleansing applications as fermentation yields, downstream processing and formulation compatibility improve. Evonik has industrialized rhamnolipid production for cleaning and personal care, while Stepan offers sophorolipid grades for household cleaning and Holiferm supplies biosurfactants across both home and personal care. Product development is moving beyond biodegradability alone toward performance attributes such as mildness, foam profile, degreasing, solubilization, skin compatibility, low-dose efficacy and formulation simplification. Personal care is also developing toward higher-functionality biosurfactants, including lipopeptides and MELs used as emulsification, delivery or skin-care ingredients. Solid and higher-active product forms are becoming more important because they can improve logistics economics and formulation flexibility.

Market Dynamics

Drivers

Drivers include consumer and brand demand for renewable and readily biodegradable ingredients, stricter sustainability requirements for detergent and personal-care formulations, and the ability of biosurfactants to combine multiple functions in one ingredient. In home care, cleaning, wetting, emulsification and compatibility with enzymes can support simplified detergent formulations. In personal care, mild cleansing, skin and scalp compatibility, foaming and solubilization strengthen their value proposition in shampoos, facial cleansers, body wash and micellar products. Industrial fermentation scale-up is gradually improving supply consistency, which is essential for adoption by large consumer-product formulators.

Restraints

Manufacturing economics remain a key constraint. Biosurfactant fermentation requires

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optimized strains, feedstocks, aeration and foam control, followed by separation, concentration, purification and sometimes decolorization or drying. These downstream operations can materially increase cost, particularly for high-purity personal-care grades. Differences in active concentration also complicate direct price comparison with conventional surfactants. Established petrochemical and oleochemical surfactants retain advantages in production scale, standardized specifications and procurement familiarity, meaning biosurfactants must demonstrate either competitive formulation cost or additional functionality rather than relying solely on renewable positioning.

Opportunities

Home care offers opportunities in laundry detergents, hand and automatic dishwashing, hard-surface cleaners and concentrated cleaning formulations, particularly where biodegradability, low aquatic impact, strong degreasing or low-temperature performance are valued. Personal care offers higher-value opportunities in facial cleansing, shampoo, body wash, oral care, sensitive-skin products, deodorants and delivery systems for functional actives. Sophorolipids and rhamnolipids can expand as primary or secondary surfactants, while lipopeptides and MELs provide opportunities in specialized emulsification, nano-emulsion, penetration and multifunctional skin-care systems.

Challenges

A major challenge is achieving consistent molecular composition and performance from biological fermentation. Different congeners of rhamnolipids, sophorolipids, lipopeptides and MELs may exhibit different foam, cleansing, emulsification and biological properties, increasing quality-control requirements. Suppliers also need to meet odor, color, purity, preservative compatibility, regulatory and formulation-stability requirements that are particularly demanding in consumer products. Another challenge is converting nominal fermentation capacity into stable commercial demand, because replacing mature surfactant systems requires formulation redevelopment, performance testing and customer qualification.

Industry Chain Analysis

Upstream inputs mainly include sugars, vegetable oils and other renewable carbon sources, microbial strains, fermentation nutrients and processing aids. Midstream

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production includes strain development, fermentation, foam and process control, separation, purification, concentration, drying and formulation support. Downstream customers consist primarily of home-care and personal-care ingredient formulators and finished-product manufacturers. Value creation increasingly occurs after fermentation: industrial cleaning grades emphasize cost, active content and cleaning efficiency, while premium personal-care grades require tighter control of purity, color, odor and biological compatibility. Suppliers capable of integrating fermentation with downstream purification and formulation development can therefore capture greater value than producers supplying untreated fermentation material alone.

Segment Insights

Rhamnolipid and Sophorolipid are becoming the principal scale-oriented glycolipid platforms in daily chemicals. Rhamnolipids combine foaming, cleansing, wetting and emulsification and are increasingly positioned for detergents as well as mild personal-care formulations. Sophorolipids can be differentiated into acidic-rich and lactonic-rich grades, allowing suppliers to optimize water solubility, foam level, degreasing and formulation compatibility for different cleaning systems. Lipopeptides occupy a more functionality-driven segment: surfactin can operate at very low concentrations and is used in cosmetic emulsification and delivery systems. Mannosylerythritol Lipid remains a relatively specialized platform but has established relevance in functional cosmetics and is being developed for broader personal-care applications. Competitive differentiation therefore depends increasingly on molecular profile, active concentration and application performance rather than simply the biosurfactant family.

Downstream Market Opportunities

Home care provides the larger-volume commercialization route through laundry, dishwashing, hard-surface and multipurpose cleaning products, where biosurfactants can function as primary or secondary surfactants and provide wetting, emulsification, degreasing and foam control. Personal care provides a more diversified high-value opportunity, with applications extending from shampoos and body cleansers to facial cleansing, micellar water, oral care, moisturizers and active-delivery systems. The strongest opportunities are emerging where biosurfactants replace several formulation functions simultaneously or enable differentiated claims around mildness, biodegradability and natural-origin content.

Regional Insights

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Europe is an important commercialization and scale-up center, supported by industrial fermentation investment and the growing availability of rhamnolipid and sophorolipid ingredients for both cleaning and personal care. North America maintains a specialized biosurfactant supplier base and demand from advanced home-care and personal-care formulations. Asia combines established Japanese biosurfactant technologies with an expanding Chinese manufacturing base. Japan has developed sophorolipid, surfactin and MEL technologies for cleaning and cosmetics, while Chinese suppliers increasingly offer cosmetic-grade rhamnolipids, sophorolipids and lipopeptides. Regional competition is therefore developing around three capabilities: large-scale fermentation, high-purity functional ingredients and cost-efficient manufacturing for wider consumer applications.

Competitive Landscape Analysis

The competitive landscape of Biosurfactants for Daily Chemicals is increasingly shaped by differentiated molecule platforms, fermentation scale and application-development capabilities. Evonik has established an industrial-scale rhamnolipid platform targeting both home care and personal care, while Jeneil Biotech and AGAE Technologies maintain specialized positions in rhamnolipid products. Allied Carbon Solutions, Holiferm, Syensqo and Stepan are active in sophorolipid-based formulations, with Holiferm and Syensqo placing particular emphasis on consumer-care applications. GlycoSurf and TensioGreen participate in specialized biosurfactant development, while SARAYA Co., Ltd. has a long-standing presence in biosurfactant-based cleaning products. Toyobo Corporation focuses on Mannosylerythritol Lipid technology, and Kaneka Corporation has developed a differentiated lipopeptide platform represented by surfactin. Among Chinese suppliers, Shaanxi Deguan Biotechnology, Xi'an Rege Biotechnology, Shandong Aikang Biotechnology and Zhejiang SILVER-ELEPHANT BIO-ENGINEERING participate in glycolipid and related biosurfactant supply, while Daqing Huali Biotechnology and Bloomage Biotechnology Corporation Limited strengthen the lipopeptide segment. Market competition is gradually shifting from basic fermentation capability toward industrial-scale cost control, active-content consistency, purification, odor and color management, formulation compatibility and technical support for home-care and personal-care customers.

Report Scope

This report studies the global Biosurfactants for Daily Chemicals production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for Biosurfactants for Daily Chemicals 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 Biosurfactants for Daily Chemicals that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biosurfactants for Daily Chemicals total production and demand, 2021-2032, (Tons)

Global Biosurfactants for Daily Chemicals total production value, 2021-2032, (USD Million)

Global Biosurfactants for Daily Chemicals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Biosurfactants for Daily Chemicals consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Biosurfactants for Daily Chemicals domestic production, consumption, key domestic manufacturers and share

Global Biosurfactants for Daily Chemicals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Biosurfactants for Daily Chemicals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Biosurfactants for Daily Chemicals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Biosurfactants for Daily Chemicals market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

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companies covered as a part of this study include Evonik, Jeneil Biotech, AGAE Technologies, Allied Carbon Solutions, Holiferm, Syensqo, Stepan, Locus FS, GlycoSurf, SARAYA Co., Ltd., 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 Biosurfactants for Daily Chemicals market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) 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 Biosurfactants for Daily Chemicals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Market Segmentation

Global Biosurfactants for Daily Chemicals Market, Segmentation by Type:

Rhamnolipid

Sophorolipid

Lipopeptides

Mannosylerythritol Lipid (MEL)

Others

Global Biosurfactants for Daily Chemicals Market, Segmentation by Product Type:

Powder

Liquid

Global Biosurfactants for Daily Chemicals Market, Segmentation by Active Ingredient Content:

Active Ingredient Content <50%

Active Ingredient Content 50%-80%

Active Ingredient Content 80%-99%

Active Ingredient Content >99%

Global Biosurfactants for Daily Chemicals Market, Segmentation by

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Application:

Home Care

Personal Care

Companies Profiled:

Evonik

Jeneil Biotech

AGAE Technologies

Allied Carbon Solutions

Holiferm

Syensqo

Stepan

Locus FS

GlycoSurf

SARAYA Co., Ltd.

Toyobo Corporation

TensioGreen

Kaneka Corporation

Shaanxi Deguan Biotechnology

Daqing Huali Biotechnology

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Xi'an Rege Biotechnology

Shandong Aikang Biotechnology

Zhejiang SILVER-ELEPHANT BIO-ENGINEERING

Bloomage Biotechnology Corporation Limited

Shandong Qilu Biotechnology Group

Key Questions Answered

1. How big is the global Biosurfactants for Daily Chemicals market?
2. What is the demand of the global Biosurfactants for Daily Chemicals market?
3. What is the year over year growth of the global Biosurfactants for Daily Chemicals market?
4. What is the total value of the global Biosurfactants for Daily Chemicals market?
5. Who are the Major Players in the global Biosurfactants for Daily Chemicals market?
6. What are the growth factors driving the market demand?

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