

Rhamnolipids - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Rhamnolipids Market size is estimated at 5.57 Million tons in 2024, and is expected to reach 27.90 Million tons by 2029, growing at a CAGR of 38.03% during the forecast period (2024-2029).

Key Highlights

The COVID-19 outbreak resulted in a global lockdown, a breakdown in supply chains and manufacturing activities, and production halts, all of which had a detrimental effect on the market in 2020. However, things started to get better in 2021, which allowed the market to resume its upward trend for the remainder of the projected period.

The major factor driving the market studied is the growing demand for rhamnolipids from eco-friendly surfactants. Moreover, the increasing demand for personal care products is also expected to fuel the market demand.

On the flip side, limitations in the production of rhamnolipids on an industrial scale have hindered the growth of the market.

The upcoming research in the applications of rhamnolipids is forecasted to offer various opportunities for the growth of the market over the forecast period.

Europe region represents the largest market and is also expected to be the fastest-growing market over the forecast period owing to the increasing consumption from countries such as Germany, the United Kingdom, and France.

Rhamnolipids Market Trends

Growing Demand of Rhamnolipids from Surfactants

Rhamnolipid bio-surfactants have the property of getting degraded easily in nature as compared to synthetic surfactants. They are believed to be a better alternative to synthetic surfactants due to their being skin-friendly, rinse-active, and very environmentally friendly.

Surfactants are known to be the major ingredients of detergents and household cleaning agents. There is a constant need for environmentally sound surfactants to be used in the industry for detergents and other cleaning products.

Rhamnolipid bio-surfactants are used in laundry detergents, floor cleaners, dishwashing liquids, and other cleaning products. Many companies have been introducing bio-surfactant cleaning and detergent products in the market.

Rhamnolipids surfactants contain either one or two molecules of rhamnose as the hydrophilic moisture, linked to one or two ω -hydroxylated fatty acid chains as the hydrophobic region.

Rhamnolipids decompose naturally, whether aerobically or anaerobically, to 100% natural substances. These glycolipids are versatile biosurfactants with a wide range of possible applications ranging from cleansing agents.

Moreover, Ecover, a Belgium-based manufacturer of ecologically sound cleaning products, offers a glass and surface cleaner containing rhamnolipid. The product provided by the company is classified as biodegradable and shows minimal impact on aquatic life.

According to Statcan, the Canadian Statistics Agency, the monthly manufacturer sales of soap and cleaning compounds in Canada in the first three months of 2023 accounted for CAD 395.58 million (~USD 304 million), approximately 20% more than the previous year's sales for the same period.

Hence, owing to the factors mentioned above, the application of rhamnolipids from surfactant is likely to dominate during the forecast period.

Europe Region to Dominate the Market

Currently, Europe accounts for the highest share of surfactants, cosmetics, and pharmaceuticals in the global market, owing to the demand from the industries and end-use applications.

In Europe, Germany has a significant market for rhamnolipids. Fraunhofer IGB, Cognis Care Chemicals, Evonik Industries AG, and Biotensidon GmbH manufacture rhamnolipids and biosurfactants.

Biotensidon GmbH has developed the capability for cost-effective mass-production of rhamnolipids, which will be instrumental in improving the health and eco characteristics of many products in several industry sectors. In order to increase the production capacity of rhamnolipids, Biotensidon GmbH has built a new rhamnolipid-supra molecular complex to increase the production capacity of rhamnolipids up to 5,000 tons per year.

In the United Kingdom, companies are investing in the development of efficient production technologies for rhamnolipids and biosurfactants.

TeeGene Biotech Limited is a biotechnology company that specializes in the production and development of biosurfactants in the country. The company developed environmentally friendly cutting-edge biotechnological processes to manufacture biosurfactants from natural sources such as microorganisms, plants, and marine organisms.

In Italy, the market for rhamnolipids and biosurfactants is still in the research and development phase. In the coming years, the market for rhamnolipids is expected to grow in the country.

France has the largest market for cosmetics in the world. Thus, most of the companies are developing specific biosurfactants which are used in personal care applications. For instance, Givaudan, a cosmetics and personal care company, developed a biosurfactant belonging to the sophorolipids family. The biosurfactant is used in deodorants, face cleansers, shower gels, and make-up removers.

Hence, owing to the factors mentioned above, Europe is likely to dominate the rhamnolipids market during the forecast period.

Rhamnolipids Industry Overview

The global rhamnolipids market is partially consolidated in nature with only a few major players dominating the market. Some of the major companies are (not in any particular order) Evonik Industries AG, Jeneil Biotech, Stepan Company, AGAE Technologies LLC, and Biotensiodn GmbH, among others.

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Contents

1 INTRODUCTION

- 1.1 Study Assumptions
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

- 4.1 Drivers
 - 4.1.1 Emergence of Eco-friendly Surfactant
 - 4.1.2 Increasing Demand For Personal Care Products
- 4.2 Restraints
 - 4.2.1 Limitation in the Production of Rhamnolipids on an Industrial Scale
- 4.3 Industry Value Chain Analysis
- 4.4 Porter's Five Forces Analysis
 - 4.4.1 Threat of New Entrants
 - 4.4.2 Bargaining Power of Buyers
 - 4.4.3 Bargaining Power of Suppliers
 - 4.4.4 Threat of Substitute Products
 - 4.4.5 Degree of Competition

5 MARKET SEGMENTATION (MARKET SIZE IN VOLUME)

- 5.1 Type
 - 5.1.1 Mono-Rhamnolipids
 - 5.1.2 Di-Rhamnolipids
- 5.2 Application
 - 5.2.1 Surfactants
 - 5.2.2 Cosmetics
 - 5.2.3 Agriculture
 - 5.2.4 Food
 - 5.2.5 Pharmaceutical
 - 5.2.6 Other Applications
- 5.3 Geography

- 5.3.1 Asia-Pacific
- 5.3.2 North America
- 5.3.3 Europe
- 5.3.4 South America
- 5.3.5 Middle-East and Africa

6 COMPETITIVE LANDSCAPE

- 6.1 Mergers and Acquisitions, Joint Ventures, Collaborations, and Agreements
- 6.2 Market Ranking Analysis
- 6.3 Strategies Adopted by Leading Players
- 6.4 Company Profiles
 - 6.4.1 AGAE Technologies, LLC
 - 6.4.2 Stepan Company
 - 6.4.3 Biotensidon GmbH
 - 6.4.4 Evonik Industries AG
 - 6.4.5 GlycoSurf
 - 6.4.6 Jeneil Biotech
 - 6.4.7 DEGUAN Biosurfactant Supplier
 - 6.4.8 TensioGreen

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

- 7.1 Upcoming Research in the Applications of Rhamnolipids

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