

Biosurfactants Market by Type (Glycolipids, Lipopeptides), Application (Detergent, Personal care, Food processing, Agricultural chemicals) and Region (North America, Europe, Asia Pacific, Rest of the World) - Global Forecast to 2027

Market Report | 2022-08-26 | 198 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

The global biosurfactants market will grow to USD 1.9 Billion by 2027, at a CAGR of 11.2% from USD 1.2 Billion in 2022. The global surfactants market is primarily dominated by synthetic surfactants derived from oleochemical or petrochemical sources. They are the major components of products we use on a daily basis, such as detergents, cosmetics, agricultural products, construction products, textiles, and food & beverages. However, due to the rising concerns for the safety of the environment as well as human health, the governments and surfactant manufacturers are focusing on shifting to renewable and sustainable products in almost every application. The rising awareness among consumers for the use of renewable and natural ingredients in their day-to-day products is boosting the demand for biosurfactants and the development of greener solutions for various applications.

"Rhamnolipids type is projected to be the fastest-growing type of biosurfactants market during the forecast period."

Rhamnolipids are extracellular biosurfactants and are produced mainly by the *Pseudomonas aeruginosa* microbe. They are composed of one (mono rhamnolipid) or two (di-rhamnolipid) rhamnose sugar, linked to one or two beta-hydroxy fatty acid chains. The rhamnolipids' composition is complex and tends to depend upon the type of carbon substrate, the origin of the bacterial strain, culture conditions, the bacterial strain itself, and the method of purification and isolation.

"Detergent application is estimated to be the largest application in biosurfactants market, in terms of value, in 2021"

Detergents used in household applications include laundry detergents, soaps, dishwasher detergents, carpet cleaners, and various types of fabric softeners. The purpose of using detergents is to remove dirt and soil from the surface of clothes or floors. Dirt and soil have to be first removed from the surfaces and then suspended in water, simultaneously preventing them from re-entering the surface. Biosurfactants in detergents help to remove oil, dirt, and unwanted particles from fabrics, dishes, and other surfaces.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

"North America is estimated to be the second-largest biosurfactants market, in terms of value, in 2021"

This region is technologically advanced with several innovations in the hardware and software sectors. North America has flourished owing to the growth of economies such as the US, Canada, and Mexico. These countries are strongly integrated through the North American Free Trade Agreement (NAFTA), owing to which trade in these countries has increased significantly in the past 20 years and has accelerated the economic growth in the US, Canada, and Mexico.

Breakdown of primaries

The study contains insights from various industry experts, ranging from raw material suppliers to Tier 1 companies. The break-up of the primaries is as follows:

- By Company Type: Tier 1 - 46%, Tier 2 - 31%, and Tier 3 - 23%

- By Designation: C-Level - 46%, Director Level - 27%, and Others - 27%

- By Region: North America - 33%, Europe - 27%, APAC - 27%, South America - 7%, Middle East & Africa - 6%,

The key market players profiled in the report include Evonik Industries AG (Germany), Deguan Biosurfactant Supplier (China), Biotensidon GmbH (Germany), Saraya Co., Ltd. (Japan), Allied Carbon Solutions Co., Ltd. (Japan), Daqing VICTEX Chemical Industries Co., Ltd. (China), Jeneil Biotech, Inc. (US), BASF SE (Germany), Holiferm Limited (UK), Solvay S.A. (Belgium) and others.

Research Coverage

This report segments the market for biosurfactants is based on type, application, and region, and provides estimations for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, associated with the market for biosurfactants.

Reasons to Buy this Report

This research report is focused on various levels of analysis - industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the biosurfactants market; high-growth regions; and market drivers, restraints, and opportunities.

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on biosurfactants offered by top players in the global market

- Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for biosurfactants across regions

- Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global biosurfactants market

- Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the biosurfactants market

Table of Contents:

1 INTRODUCTION 21

1.1 STUDY OBJECTIVES 21

1.2 MARKET DEFINITION 21

1.2.1 BIOSURFACTANTS MARKET: INCLUSIONS AND EXCLUSIONS 21

1.2.2 BIOSURFACTANTS MARKET DEFINITION AND INCLUSIONS, BY TYPE 22

1.2.3 BIOSURFACTANTS MARKET DEFINITION AND INCLUSIONS, BY APPLICATION 22

1.3 MARKET SCOPE 23

FIGURE 1 BIOSURFACTANTS MARKET SEGMENTATION 23

1.3.1 REGIONS COVERED 23

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

1.3.2	YEARS CONSIDERED	24
1.4	CURRENCY	24
1.5	UNITS CONSIDERED	24
1.6	STAKEHOLDERS	24
1.7	SUMMARY OF CHANGES	25
2	RESEARCH METHODOLOGY	26
2.1	RESEARCH DATA	26
FIGURE 2	BIOSURFACTANTS MARKET: RESEARCH DESIGN	26
2.1.1	SECONDARY DATA	27
2.1.2	PRIMARY DATA	27
2.1.2.1	Primary interviews - demand and supply sides	27
2.1.2.2	Key industry insights	28
2.1.2.3	Breakdown of Primary Interviews	28
2.2	MARKET SIZE ESTIMATION	29
2.2.1	BOTTOM-UP APPROACH	29
FIGURE 3	MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (SUPPLY SIDE): COLLECTIVE SHARE OF MAJOR PLAYERS	29
FIGURE 4	MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 BOTTOM-UP (SUPPLY SIDE) COLLECTIVE REVENUE OF ALL PRODUCTS	30
FIGURE 5	MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 - BOTTOM-UP (DEMAND SIDE) PRODUCTS SOLD	30
2.2.2	TOP-DOWN APPROACH	31
FIGURE 6	MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 3 TOP-DOWN	31
2.3	DATA TRIANGULATION	31
FIGURE 7	BIOSURFACTANTS MARKET: DATA TRIANGULATION	32
2.4	GROWTH RATE ASSUMPTIONS/GROWTH FORECAST	33
2.4.1	SUPPLY SIDE	33
FIGURE 8	MARKET CAGR PROJECTIONS FROM SUPPLY SIDE	33
?		
2.4.2	DEMAND SIDE	33
FIGURE 9	MARKET GROWTH PROJECTIONS FROM DEMAND SIDE: DRIVERS AND OPPORTUNITIES	34
2.5	FACTOR ANALYSIS	34
2.6	RESEARCH ASSUMPTIONS	35
2.7	RESEARCH LIMITATIONS	35
2.8	RISK ASSESSMENT	35
TABLE 1	BIOSURFACTANTS MARKET: RISK ASSESSMENT	35
3	EXECUTIVE SUMMARY	36
FIGURE 10	GLYCOLIPIDS SEGMENT TO LEAD BIOSURFACTANTS MARKET DURING FORECAST PERIOD	37
FIGURE 11	DETERGENTS APPLICATION TO LEAD MARKET DURING FORECAST PERIOD	37
FIGURE 12	EUROPE ACCOUNTED FOR LARGEST MARKET SHARE IN 2021	38
4	PREMIUM INSIGHTS	39
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN BIOSURFACTANTS MARKET	39
FIGURE 13	GROWING PERSONAL CARE APPLICATION TO DRIVE BIOSURFACTANTS MARKET DURING FORECAST PERIOD	39
4.2	BIOSURFACTANTS MARKET SIZE, BY REGION	39
FIGURE 14	EUROPE TO BE LARGEST MARKET FOR BIOSURFACTANTS DURING FORECAST PERIOD	39
4.3	EUROPE: BIOSURFACTANTS MARKET, BY APPLICATION AND COUNTRY, 2021	40
FIGURE 15	DETERGENT APPLICATION AND GERMANY ACCOUNTED FOR LARGEST SHARES	40
4.4	BIOSURFACTANTS MARKET SIZE, BY TYPE	40
FIGURE 16	SOPHOROLIPIDS ARE LARGEST TYPE IN BIOSURFACTANTS MARKET	40

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

4.5	BIOSURFACTANTS MARKET SIZE, APPLICATION VS. REGION	41
	FIGURE 17	DETERGENT SEGMENT LED BIOSURFACTANTS MARKET ACROSS REGIONS
4.6	BIOSURFACTANTS MARKET: MAJOR COUNTRIES	41
	FIGURE 18	GERMANY TO REGISTER HIGHEST CAGR BETWEEN 2022 AND 2027
5	MARKET OVERVIEW	42
5.1	INTRODUCTION	42
5.2	MARKET DYNAMICS	42
	FIGURE 19	DRIVERS, RESTRAINTS, AND OPPORTUNITIES IN BIOSURFACTANTS MARKET
5.2.1	DRIVERS	43
5.2.1.1	Increasing demand for green solutions	43
5.2.1.2	Regulations on use of synthetic surfactants	43
5.2.1.3	Personal care product manufacturers going green	43
5.2.2	RESTRAINTS	43
5.2.2.1	Less commercialization due to high production cost	43
5.2.2.2	Conventional but bio-based products gaining popularity	44
5.2.2.3	Lack of production technology and cost-competitiveness of rhamnolipids	44
5.2.3	OPPORTUNITIES	44
5.2.3.1	Development of cost-effective production techniques	44
	TABLE 2	POTENTIAL APPLICATIONS OF BIOSURFACTANTS FOR INDUSTRIAL USES
5.2.3.2	Rhamnolipids as antitumor agents and immunomodulators	46
5.2.3.3	Rising demand from the petroleum industry	46
5.3	PORTER'S FIVE FORCES ANALYSIS	46
	FIGURE 20	BIOSURFACTANTS: PORTER'S FIVE FORCES ANALYSIS
5.3.1	THREAT OF SUBSTITUTES	47
5.3.2	BARGAINING POWER OF SUPPLIERS	47
5.3.3	BARGAINING POWER OF BUYERS	48
5.3.4	THREAT OF NEW ENTRANTS	48
5.3.5	INTENSITY OF COMPETITIVE RIVALRY	48
	TABLE 3	BIOSURFACTANTS MARKET: PORTER'S FIVE FORCES ANALYSIS
5.4	KEY STAKEHOLDERS & BUYING CRITERIA	49
5.4.1	KEY STAKEHOLDERS IN BUYING PROCESS	49
	FIGURE 21	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS
	TABLE 4	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS (%)
5.4.2	BUYING CRITERIA	50
	FIGURE 22	KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS
	TABLE 5	KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS
5.5	MACROECONOMIC INDICATORS	51
5.5.1	GDP TRENDS AND FORECAST FOR MAJOR ECONOMIES	51
	TABLE 6	GDP TRENDS AND FORECAST OF MAJOR ECONOMIES, 2019-2027 (USD BILLION)
6	INDUSTRY TRENDS	52
6.1	SUPPLY CHAIN ANALYSIS	52
	FIGURE 23	BIOSURFACTANTS: SUPPLY CHAIN
6.1.1	RAW MATERIALS	52
6.1.2	MANUFACTURERS	52
6.1.3	DISTRIBUTION NETWORK	53
6.1.4	END USERS	53
6.2	BIOSURFACTANTS MARKET: REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS	53

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

FIGURE 24 □ MARKET SIZE UNDER REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS □ 53

TABLE 7 □ BIOSURFACTANTS MARKET FORECAST SCENARIO, 2019-2027 (USD THOUSAND) □ 53

6.2.1 □ NON-COVID-19 SCENARIO □ 54

6.2.2 □ OPTIMISTIC SCENARIO □ 54

6.2.3 □ PESSIMISTIC SCENARIO □ 54

6.2.4 □ REALISTIC SCENARIO □ 54

6.3 □ PRICING ANALYSIS □ 54

6.3.1 □ AVERAGE SELLING PRICE OF KEY PLAYERS, BY APPLICATION □ 54

FIGURE 25 □ AVERAGE SELLING PRICE OF KEY PLAYERS FOR TOP THREE APPLICATIONS □ 55

TABLE 8 □ AVERAGE SELLING PRICE OF KEY PLAYERS FOR TOP THREE APPLICATIONS, USD/KG □ 55

6.3.2 □ AVERAGE SELLING PRICE, BY REGION □ 55

FIGURE 26 □ AVERAGE SELLING PRICE OF BIOSURFACTANTS, BY REGION, USD/KG □ 56

TABLE 9 □ AVERAGE SELLING PRICE OF BIOSURFACTANTS, BY REGION, USD/KG □ 56

6.4 □ TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESS □ 56

6.4.1 □ REVENUE SHIFTS & REVENUE POCKETS FOR BIOSURFACTANTS MARKET □ 56

FIGURE 27 □ REVENUE SHIFT FOR BIOSURFACTANTS MARKET □ 57

6.5 □ CONNECTED MARKETS: ECOSYSTEM □ 57

TABLE 10 □ BIOSURFACTANTS MARKET: ECOSYSTEM □ 57

FIGURE 28 □ BIOSURFACTANTS: ECOSYSTEM □ 59

6.6 □ TECHNOLOGY ANALYSIS □ 59

6.6.1 □ SOLID-STATE FERMENTATION PROCESS □ 59

6.6.2 □ SPECIFIC YIELD ENHANCEMENT BY MEDIA MODULATIONS □ 59

6.6.3 □ BIOSURFACTANT COPRODUCTION FOR PROCESS ECONOMIZATION □ 60

6.7 □ CASE STUDY ANALYSIS □ 60

6.7.1 □ CASE STUDY ON BIOSURFACTANT FLUSHING WITH MULTI-PHASE EXTRACTION □ 60

6.8 □ TRADE DATA STATISTICS □ 61

6.8.1 □ IMPORT SCENARIO OF SURFACTANTS □ 61

FIGURE 29 □ IMPORTS OF SURFACTANTS, BY KEY COUNTRIES (2012-2021) □ 61

TABLE 11 □ IMPORTS OF SURFACTANTS, BY REGION, 2012-2021 (USD MILLION) □ 61

6.8.2 □ EXPORT SCENARIO OF SURFACTANTS □ 62

FIGURE 30 □ EXPORTS OF SURFACTANTS BY KEY COUNTRY (2012-2021) □ 62

TABLE 12 □ EXPORTS OF SURFACTANTS, BY REGION, 2012-2021 (USD MILLION) □ 62

6.9 □ REGULATORY LANDSCAPE □ 63

6.9.1 □ REGULATIONS RELATED TO BIOSURFACTANTS □ 63

6.10 □ KEY CONFERENCES & EVENTS IN 2022-2023 □ 63

TABLE 13 □ BIOSURFACTANTS MARKET: DETAILED LIST OF CONFERENCES & EVENTS □ 63

6.11 □ PATENT ANALYSIS □ 63

6.11.1 □ APPROACH □ 64

6.11.2 □ DOCUMENT TYPE □ 64

FIGURE 31 □ PATENTS REGISTERED FOR BIOSURFACTANTS, 2011-2021 □ 64

FIGURE 32 □ PATENT PUBLICATION TRENDS FOR BIOSURFACTANTS, 2011-2021 □ 65

6.11.3 □ LEGAL STATUS OF PATENTS □ 65

FIGURE 33 □ LEGAL STATUS OF PATENTS FILED FOR BIOSURFACTANTS □ 65

6.11.4 □ JURISDICTION ANALYSIS □ 66

FIGURE 34 □ HIGHEST NUMBER OF PATENTS FILED BY COMPANIES IN US □ 66

6.11.5 □ TOP APPLICANTS □ 66

FIGURE 35 □ EVONIK INDUSTRIES AG REGISTERED HIGHEST NUMBER OF PATENTS BETWEEN 2011 AND 2021 □ 66

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 14 PATENTS BY EVONIK INDUSTRIES AG 67

TABLE 15 PATENTS BY CUBIST PHARMACEUTICALS 67

TABLE 16 PATENTS BY THE COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH 68

TABLE 17 TOP TEN PATENT OWNERS (US) DURING LAST TEN YEARS 68

7 BIOSURFACTANTS MARKET, BY TYPE 69

7.1 INTRODUCTION 70

TABLE 18 BIOSURFACTANTS: BREAKDOWN OF TYPES AND MICROORGANISMS 70

FIGURE 36 SOPHOROLIPIDS TO DOMINATE BIOSURFACTANTS MARKET DURING FORECAST PERIOD 71

TABLE 19 BIOSURFACTANTS MARKET SIZE, BY TYPE, 2017-2020 (USD THOUSAND) 71

TABLE 20 BIOSURFACTANTS MARKET SIZE, BY TYPE, 2021-2027 (USD THOUSAND) 71

TABLE 21 BIOSURFACTANTS MARKET SIZE, BY TYPE, 2017-2020 (TON) 72

TABLE 22 BIOSURFACTANTS MARKET SIZE, BY TYPE, 2021-2027 (TON) 72

7.2 GLYCOLIPIDS 72

7.2.1 HIGH BIODEGRADABILITY, HIGH SELECTIVITY, AND ENVIRONMENTAL COMPATIBILITY 72

7.2.2 SOPHOROLIPIDS 73

7.2.3 RHAMNOLIPID 73

7.3 LIPOPEPTIDES 74

7.3.1 REDUCED SURFACE TENSION AND STRONG ANTIBIOTIC EFFECT 74

7.3.2 SURFACTIN 74

7.3.3 LICHENYSIN 74

8 BIOSURFACTANTS MARKET, BY APPLICATION 75

8.1 INTRODUCTION 76

TABLE 23 BIOSURFACTANTS: BREAKDOWN OF APPLICATIONS 76

FIGURE 37 PERSONAL CARE TO BE FASTEST-GROWING APPLICATION IN BIOSURFACTANTS MARKET 77

TABLE 24 BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 77

TABLE 25 BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 77

TABLE 26 BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 78

TABLE 27 BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 78

8.2 DETERGENTS 78

8.2.1 USE OF ENVIRONMENTALLY FRIENDLY DETERGENTS IN HOME CARE INDUSTRY 78

TABLE 28 BIOSURFACTANTS MARKET SIZE IN DETERGENTS, BY REGION 2017-2020 (USD THOUSAND) 79

TABLE 29 BIOSURFACTANTS MARKET SIZE IN DETERGENTS, BY REGION, 2021-2027 (USD THOUSAND) 79

TABLE 30 BIOSURFACTANTS MARKET SIZE IN DETERGENTS, BY REGION, 2017-2020 (TON) 79

TABLE 31 BIOSURFACTANTS MARKET SIZE IN DETERGENTS, BY REGION, 2021-2027 (TON) 80

8.3 PERSONAL CARE 80

8.3.1 CONSUMER AWARENESS REGARDING USE OF ENVIRONMENTALLY FRIENDLY PRODUCTS 80

TABLE 32 BIOSURFACTANTS MARKET SIZE IN PERSONAL CARE, BY REGION, 2017-2020 (USD THOUSAND) 80

TABLE 33 BIOSURFACTANTS MARKET SIZE IN PERSONAL CARE, BY REGION, 2021-2027 (USD THOUSAND) 81

TABLE 34 BIOSURFACTANTS MARKET SIZE IN PERSONAL CARE, BY REGION, 2017-2020 (TON) 81

TABLE 35 BIOSURFACTANTS MARKET SIZE IN PERSONAL CARE, BY REGION, 2021-2027 (TON) 81

8.4 FOOD PROCESSING 82

8.4.1 INCREASING USE OF BIOSURFACTANTS AS BIOCIDES 82

TABLE 36 BIOSURFACTANTS MARKET SIZE IN FOOD PROCESSING, BY REGION, 2017-2020 (USD THOUSAND) 82

TABLE 37 BIOSURFACTANTS MARKET SIZE IN FOOD PROCESSING, BY REGION, 2021-2027 (USD THOUSAND) 82

TABLE 38 BIOSURFACTANTS MARKET SIZE IN FOOD PROCESSING, BY REGION, 2017-2020 (TON) 83

TABLE 39 BIOSURFACTANTS MARKET SIZE IN FOOD PROCESSING, BY REGION, 2021-2027 (TON) 83

8.5 AGRICULTURAL CHEMICALS 83

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

8.5.1 DEMAND FOR CROP PROTECTION AND IMPROVED SHELF LIFE 83

TABLE 40 BIOSURFACTANTS MARKET SIZE IN AGRICULTURAL CHEMICALS, BY REGION, 2017-2020 (USD THOUSAND) 83

TABLE 41 BIOSURFACTANTS MARKET SIZE IN AGRICULTURAL CHEMICALS, BY REGION, 2021-2027 (USD THOUSAND) 84

TABLE 42 BIOSURFACTANTS MARKET SIZE IN AGRICULTURAL CHEMICALS, BY REGION, 2017-2020 (TON) 84

TABLE 43 BIOSURFACTANTS MARKET SIZE IN AGRICULTURAL CHEMICALS, BY REGION, 2021-2027 (TON) 84

8.6 OTHERS 85

TABLE 44 BIOSURFACTANTS MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2017-2020 (USD THOUSAND) 85

TABLE 45 BIOSURFACTANTS MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2021-2027 (USD THOUSAND) 86

TABLE 46 BIOSURFACTANTS MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2017-2020 (TON) 86

TABLE 47 BIOSURFACTANTS MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2021-2027 (TON) 86

?

9 BIOSURFACTANTS MARKET, BY REGION 87

9.1 INTRODUCTION 88

FIGURE 38 EUROPE TO BE FASTEST-GROWING BIOSURFACTANTS MARKET BETWEEN 2022 AND 2027 88

TABLE 48 BIOSURFACTANTS MARKET SIZE, BY REGION, 2017-2020 (USD THOUSAND) 88

TABLE 49 BIOSURFACTANTS MARKET SIZE, BY REGION, 2021-2027 (USD THOUSAND) 89

TABLE 50 BIOSURFACTANTS MARKET SIZE, BY REGION, 2017-2020 (TON) 89

TABLE 51 BIOSURFACTANTS MARKET SIZE, BY REGION, 2021-2027 (TON) 89

9.2 EUROPE 90

FIGURE 39 EUROPE: BIOSURFACTANTS MARKET SNAPSHOT 91

9.2.1 EUROPE BIOSURFACTANTS MARKET, BY APPLICATION 91

TABLE 52 EUROPE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 91

TABLE 53 EUROPE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 92

TABLE 54 EUROPE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 92

TABLE 55 EUROPE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 93

9.2.2 EUROPE BIOSURFACTANTS MARKET, BY COUNTRY 93

TABLE 56 EUROPE: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (USD THOUSAND) 93

TABLE 57 EUROPE: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (USD THOUSAND) 93

TABLE 58 EUROPE: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (TON) 94

TABLE 59 EUROPE: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (TON) 94

9.2.2.1 Germany 94

9.2.2.1.1 Investments from major biosurfactant manufacturing companies 94

TABLE 60 GERMANY: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 95

TABLE 61 GERMANY: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 95

TABLE 62 GERMANY: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 95

TABLE 63 GERMANY: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 96

9.2.2.2 UK 96

9.2.2.2.1 Strong industrial base and easy availability of raw materials 96

TABLE 64 UK: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 96

TABLE 65 UK: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 97

TABLE 66 UK: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 97

TABLE 67 UK: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 97

?

9.2.2.3 France 98

9.2.2.3.1 Economic stability, progressive industrial hubs, and high labor productivity 98

TABLE 68 FRANCE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 98

TABLE 69 FRANCE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 98

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 70 FRANCE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 99

TABLE 71 FRANCE: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 99

9.3 ASIA PACIFIC 99

FIGURE 40 ASIA PACIFIC: BIOSURFACTANTS MARKET SNAPSHOT 100

9.3.1 ASIA PACIFIC BIOSURFACTANTS MARKET, BY APPLICATION 100

TABLE 72 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 100

TABLE 73 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 101

TABLE 74 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 101

TABLE 75 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 101

9.3.2 ASIA PACIFIC BIOSURFACTANTS MARKET, BY COUNTRY 102

TABLE 76 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (USD THOUSAND) 102

TABLE 77 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (USD THOUSAND) 102

TABLE 78 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (TON) 102

TABLE 79 ASIA PACIFIC: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (TON) 103

9.3.2.1 Japan 103

9.3.2.1.1 Versatile, low-cost, and high-performance biosurfactant products 103

TABLE 80 JAPAN: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 103

TABLE 81 JAPAN: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 103

TABLE 82 JAPAN: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 104

TABLE 83 JAPAN: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 104

9.3.2.2 China 104

9.3.2.2.1 Changing consumer demands and consecutive increases in industrial output 104

TABLE 84 CHINA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 105

TABLE 85 CHINA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 105

TABLE 86 CHINA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 106

TABLE 87 CHINA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 106

9.3.2.3 South Korea 106

9.3.2.3.1 Presence of technologically advanced manufacturers 106

TABLE 88 SOUTH KOREA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 107

TABLE 89 SOUTH KOREA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 107

TABLE 90 SOUTH KOREA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 108

TABLE 91 SOUTH KOREA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 108

9.4 NORTH AMERICA 108

FIGURE 41 NORTH AMERICA: BIOSURFACTANTS MARKET SNAPSHOT 109

9.4.1 NORTH AMERICA BIOSURFACTANTS MARKET, BY APPLICATION 109

TABLE 92 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 109

TABLE 93 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND) 110

TABLE 94 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 110

TABLE 95 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 110

9.4.2 NORTH AMERICA BIOSURFACTANTS MARKET, BY COUNTRY 111

TABLE 96 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (USD THOUSAND) 111

TABLE 97 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (USD THOUSAND) 111

TABLE 98 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (TON) 111

TABLE 99 NORTH AMERICA: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (TON) 111

9.4.2.1 US 112

9.4.2.1.1 Shift in focus toward use of sustainable plastics across industries 112

TABLE 100 US: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND) 112

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 101	US: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND)	112
TABLE 102	US: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON)	113
TABLE 103	US: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON)	113
9.5	REST OF WORLD (ROW)	113
9.5.1	REST OF WORLD BIOSURFACTANTS MARKET, BY APPLICATION	114
TABLE 104	ROW: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND)	114
TABLE 105	ROW: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND)	114
TABLE 106	ROW: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON)	115
TABLE 107	ROW: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON)	115
9.5.2	REST OF WORLD BIOSURFACTANTS MARKET, BY COUNTRY	115
TABLE 108	ROW: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (USD THOUSAND)	115
TABLE 109	ROW: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (USD THOUSAND)	115
TABLE 110	ROW: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2017-2020 (TON)	116
TABLE 111	ROW: BIOSURFACTANTS MARKET SIZE, BY COUNTRY, 2021-2027 (TON)	116
9.5.2.1	Brazil	116
9.5.2.1.1	Rising exploration activities and discovery of new oilfields	116
TABLE 112	BRAZIL: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (USD THOUSAND)	117
TABLE 113	BRAZIL: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (USD THOUSAND)	117
TABLE 114	BRAZIL: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2017-2020 (TON)	117
TABLE 115	BRAZIL: BIOSURFACTANTS MARKET SIZE, BY APPLICATION, 2021-2027 (TON)	118
10	COMPETITIVE LANDSCAPE	119
10.1	INTRODUCTION	119
10.2	STRATEGIES ADOPTED BY KEY PLAYERS	119
10.2.1	OVERVIEW OF STRATEGIES ADOPTED BY BIOSURFACTANT MANUFACTURERS	119
10.3	MARKET SHARE ANALYSIS	120
10.3.1	RANKING OF KEY MARKET PLAYERS, 2021	120
FIGURE 42	RANKING OF TOP FIVE PLAYERS IN BIOSURFACTANTS MARKET, 2021	120
10.3.2	MARKET SHARE OF KEY PLAYERS	121
TABLE 116	BIOSURFACTANTS MARKET: DEGREE OF COMPETITION	121
FIGURE 43	EVONIK INDUSTRIES AG: LEADING PLAYER IN BIOSURFACTANTS MARKET	121
10.3.2.1	Evonik Industries AG	122
10.3.2.2	Deguan Biosurfactant Supplier	122
10.3.2.3	Biotensidon GmbH	122
10.3.2.4	Saraya Co., Ltd.	122
10.3.2.5	Allied Carbon Solutions Co., Ltd. (ACS)	122
10.3.3	REVENUE ANALYSIS OF TOP FIVE PLAYERS	122
FIGURE 44	REVENUE ANALYSIS FOR KEY COMPANIES, 2017-2021	123
10.4	COMPANY PRODUCT FOOTPRINT ANALYSIS	124
FIGURE 45	BIOSURFACTANTS MARKET: OVERALL COMPANY FOOTPRINT	124
TABLE 117	BIOSURFACTANTS MARKET: TYPE FOOTPRINT	125
TABLE 118	BIOSURFACTANTS MARKET: APPLICATION FOOTPRINT	126
TABLE 119	BIOSURFACTANTS MARKET: REGION FOOTPRINT	127
10.5	COMPANY EVALUATION MATRIX (TIER 1)	129
FIGURE 46	COMPANY EVALUATION QUADRANT FOR BIOSURFACTANTS MARKET (TIER 1)	129
10.6	COMPETITIVE BENCHMARKING	130
TABLE 120	BIOSURFACTANTS MARKET: DETAILED LIST OF KEY START-UPS/SMES	130
TABLE 121	BIOSURFACTANTS MARKET: COMPETITIVE BENCHMARKING OF KEY START-USP/SMES	131

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

10.7	START-UPS/SMES EVALUATION QUADRANT	131
FIGURE 47	START-UPS/SME EVALUATION QUADRANT FOR BIOSURFACTANTS MARKET	132
10.8	COMPETITIVE SITUATIONS AND TRENDS	132
10.8.1	PRODUCT LAUNCHES	132
TABLE 122	BIOSURFACTANTS MARKET: PRODUCT LAUNCHES, 2018-2021	132
10.8.2	DEALS	133
TABLE 123	BIOSURFACTANTS MARKET: DEALS (2018-2022)	133
10.8.3	OTHER DEVELOPMENTS	135
TABLE 124	BIOSURFACTANTS MARKET: EXPANSIONS, INVESTMENTS, AND INNOVATIONS (2018- 2022)	135
11	COMPANY PROFILE	136
11.1	MAJOR PLAYERS	136
	(Business Overview, Products, Recent Developments, MnM View)*	
11.1.1	EVONIK INDUSTRIES AG	136
TABLE 125	EVONIK INDUSTRIES AG: COMPANY OVERVIEW	136
FIGURE 48	EVONIK INDUSTRIES AG: COMPANY SNAPSHOT	137
11.1.2	DEGUAN BIOSURFACTANT SUPPLIER	140
TABLE 126	DEGUAN BIOSURFACTANT SUPPLIER: COMPANY OVERVIEW	140
11.1.3	BIOTENSIDON GMBH	142
TABLE 127	BIOTENSIDON GMBH: COMPANY OVERVIEW	142
11.1.4	SARAYA CO., LTD.	143
TABLE 128	SARAYA CO., LTD.: COMPANY OVERVIEW	143
11.1.5	ALLIED CARBON SOLUTIONS CO., LTD.	144
TABLE 129	ALLIED CARBON SOLUTIONS CO., LTD.: COMPANY OVERVIEW	144
11.1.6	JENEIL BIOTECH, INC.	145
TABLE 130	JENEIL BIOTECH, INC.: COMPANY OVERVIEW	145
11.1.7	BASF SE	147
TABLE 131	BASF SE: COMPANY OVERVIEW	147
FIGURE 49	BASF SE: COMPANY SNAPSHOT	148
11.1.8	HOLIFERM LIMITED	151
TABLE 132	HOLIFERM LIMITED: COMPANY OVERVIEW	151
11.1.9	STEPAN COMPANY	153
TABLE 133	STEPAN COMPANY: COMPANY OVERVIEW	153
FIGURE 50	STEPAN COMPANY: COMPANY SNAPSHOT	154
11.1.10	KANEKA CORPORATION	157
TABLE 134	KANEKA CORPORATION: COMPANY OVERVIEW	157
FIGURE 51	KANEKA CORPORATION: COMPANY SNAPSHOT	158
11.1.11	RHAMNOLIPID INC.	160
TABLE 135	RHAMNOLIPID INC.: COMPANY OVERVIEW	160
11.1.12	AGAE TECHNOLOGIES, LLC	161
TABLE 136	AGAE TECHNOLOGIES, LLC: COMPANY OVERVIEW	161
11.1.13	GLYCOSURF, LLC	162
TABLE 137	GLYCOSURF, LLC: COMPANY OVERVIEW	162
11.1.14	LOCUS FERMENTATION SOLUTIONS	164
TABLE 138	LOCUS FERMENTATION SOLUTIONS: COMPANY OVERVIEW	164
11.1.15	GIVAUDAN SA	166
TABLE 139	GIVAUDAN SA: COMPANY OVERVIEW	166
FIGURE 52	GIVAUDAN SA: COMPANY SNAPSHOT	167

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

11.1.16	SOLVAY S.A.	168
TABLE 140	SOLVAY S.A.: COMPANY OVERVIEW	168
FIGURE 53	SOLVAY S.A.: COMPANY SNAPSHOT	169
11.1.17	WHEATOLEO	171
TABLE 141	WHEATOLEO: COMPANY OVERVIEW	171
11.1.18	DAQING VICTEX CHEMICAL INDUSTRIES CO., LTD.	172
TABLE 142	DAQING VICTEX CHEMICAL INDUSTRIES CO., LTD.: COMPANY OVERVIEW	172
11.2	OTHER KEY MARKET PLAYERS	173
11.2.1	TENSIOGREEN TECHNOLOGY CORP.	173
TABLE 143	TENSIOGREEN TECHNOLOGY CORP.: COMPANY OVERVIEW	173
11.2.2	HUB.TECH. S.A.	174
TABLE 144	HUB.TECH. S.A.: COMPANY OVERVIEW	174
11.2.3	KEMIN INDUSTRIES, INC.	174
TABLE 145	KEMIN INDUSTRIES, INC.: COMPANY OVERVIEW	174
11.2.4	DISPERSA INC.	175
TABLE 146	DISPERSA INC.: COMPANY OVERVIEW	175
11.2.5	VETLINE	175
TABLE 147	VETLINE: COMPANY OVERVIEW	175
11.2.6	FRAUNHOFER IGB	176
TABLE 148	FRAUNHOFER IGB: COMPANY OVERVIEW	176
11.2.7	ZFA TECHNOLOGIES INC.	177
TABLE 149	ZFA TECHNOLOGIES INC.: COMPANY OVERVIEW	177
11.2.8	BIOFUTURE LIMITED	177
TABLE 150	BIOFUTURE LIMITED: COMPANY OVERVIEW	177
11.2.9	TOYOBO CO., LTD.	178
TABLE 151	TOYOBO CO., LTD.: COMPANY OVERVIEW	178
11.2.10	KANEBO COSMETICS INC.	178
TABLE 152	KANEBO COSMETICS INC.: COMPANY OVERVIEW	178
11.2.11	MG INTOBIO CO., LTD.	179
TABLE 153	MG INTOBIO CO., LTD.: COMPANY OVERVIEW	179
11.2.12	SYNTHEZYME LLC	179
TABLE 154	SYNTHEZYME LLC: COMPANY OVERVIEW	179
11.2.13	SASOL LTD.	180
TABLE 155	SASOL LTD.: COMPANY OVERVIEW	180
11.2.14	TEEGENE BIOTECH LTD.	180
TABLE 156	TEEGENE BIOTECH LTD.: COMPANY OVERVIEW	180
*Details on Business Overview, Products, Recent Developments, MnM View might not be captured in case of unlisted companies.		
12	ADJACENT & RELATED MARKETS	181
12.1	INTRODUCTION	181
12.2	LIMITATION	181
12.3	SURFACTANTS MARKET	181
12.3.1	MARKET DEFINITION	181
12.3.2	MARKET OVERVIEW	181
12.4	SURFACTANTS, BY REGION	182
TABLE 157	SURFACTANTS MARKET SIZE, BY REGION, 2018-2025 (KILOTON)	182
TABLE 158	SURFACTANTS MARKET SIZE, BY REGION, 2018-2025 (USD MILLION)	182
12.4.1	ASIA PACIFIC	183

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

12.4.1.1	By country	183
TABLE 159	ASIA PACIFIC: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON)	183
TABLE 160	ASIA PACIFIC: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION)	183
12.4.1.2	By type	183
TABLE 161	ASIA PACIFIC: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (KILOTON)	183
TABLE 162	ASIA PACIFIC: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (USD MILLION)	184
12.4.2	EUROPE	184
12.4.2.1	By country	184
TABLE 163	EUROPE: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON)	184
TABLE 164	EUROPE: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION)	185
12.4.2.2	By type	185
TABLE 165	EUROPE: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (KILOTON)	185
TABLE 166	EUROPE: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (USD MILLION)	185
12.4.3	NORTH AMERICA	186
12.4.3.1	By country	186
TABLE 167	NORTH AMERICA: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON)	186
TABLE 168	NORTH AMERICA: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION)	186
12.4.3.2	By type	186
TABLE 169	NORTH AMERICA: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (KILOTON)	186
TABLE 170	NORTH AMERICA: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (USD MILLION)	187
12.4.4	MIDDLE EAST & AFRICA	187
12.4.4.1	By country	187
TABLE 171	MIDDLE EAST & AFRICA: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON)	187
TABLE 172	MIDDLE EAST & AFRICA: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION)	187
12.4.4.2	By type	188
TABLE 173	MIDDLE EAST & AFRICA: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (KILOTON)	188
TABLE 174	MIDDLE EAST & AFRICA: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (USD MILLION)	188
12.4.5	SOUTH AMERICA	188
12.4.5.1	By country	188
TABLE 175	SOUTH AMERICA: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON)	188
TABLE 176	SOUTH AMERICA: SURFACTANTS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION)	189
12.4.5.2	By type	189
TABLE 177	SOUTH AMERICA: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (KILOTON)	189
TABLE 178	SOUTH AMERICA: SURFACTANTS MARKET SIZE, BY TYPE, 2018-2025 (USD MILLION)	189
13	APPENDIX	190
13.1	DISCUSSION GUIDE	190
13.2	KNOWLEDGE STORE: MARKET SAND MARKETS SUBSCRIPTION PORTAL	193
13.3	AVAILABLE CUSTOMIZATIONS	195
13.4	RELATED REPORTS	195
13.5	AUTHOR DETAILS	196

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Biosurfactants Market by Type (Glycolipids, Lipopeptides), Application (Detergent, Personal care, Food processing, Agricultural chemicals) and Region (North America, Europe, Asia Pacific, Rest of the World) - Global Forecast to 2027

Market Report | 2022-08-26 | 198 pages | MarketsandMarkets

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Date

2026-03-04

Signature

A large, empty rectangular box intended for a signature.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com