

Bio-Lubricants Market Report by Base Oil Type (Vegetable Oils, Animal Fats), Application (Hydraulic Fluids, Metalworking Fluids, Chainsaw Oils, Mold Release Agents, Two-Cycle Engine Oils, Gear Oils and Greases, and Others), End Use Industry (Power Generation, Automotive, Heavy Equipment, Food & Beverage, Metallurgy & Metalworking, Chemical Manufacturing, and Others), and Region 2024-2032

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Abstracts

The global bio-lubricants market size reached US\$ 2.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3.2 Billion by 2032, exhibiting a growth rate (CAGR) of 3.4% during 2024-2032. The market is experiencing steady growth driven by the increasing consumer awareness and preference for sustainable, biodegradable products in industries, the growing global emphasis on sustainability, and continuous technological improvement in product performance and efficiency.

Bio-Lubricants Market Trends:

Environmental regulations and sustainability initiatives

The global market is significantly influenced by stringent environmental regulations and a growing emphasis on sustainability. Governments worldwide are enacting policies to reduce carbon footprints and control pollution, which directly impacts the lubricant industry. The regulations and similar initiatives in other regions are encouraging the adoption of environmentally friendly lubricants. These lubricants are derived from vegetable oils and other renewable sources, and offer a sustainable alternative to traditional mineral-based lubricants. They are biodegradable, non-toxic, and have a

lesser environmental impact in terms of both production and disposal. This regulatory environment, combined with increasing corporate responsibility towards environmental sustainability, drives demand in various applications, including automotive, industrial, and marine sectors.

Technological advancements and improved performance

Technological advancements in formulation and production contribute significantly to market growth. Early variants faced challenges such as poor oxidative stability and lower temperature performance compared to their synthetic counterparts. However, recent developments have overcome these limitations, enhancing thermal and oxidative stability, load-carrying capacity, and longevity of bio-lubricants. Such improvements make them more competitive with, and in some cases superior to, conventional lubricants. Along with this, enhanced R&D efforts are leading to the introduction of bio-based additives and innovative production techniques, further improving the performance attributes of these lubricants. These advancements are pivotal in expanding their application range, making them a viable option in more demanding and diverse industrial applications, thereby fueling market growth.

Increasing consumer awareness and demand for sustainable products

The shift in consumer preferences towards environmentally friendly and sustainable products is a key driver for the market. There is a growing awareness among consumers about the environmental impact of their choices, including the lubricants used in vehicles and machinery. This awareness is further bolstered by social media and global environmental campaigns, leading to increased demand for green products. Bio-lubricants, being derived from renewable resources, align well with these consumer values. They offer a reduced environmental impact in terms of biodegradability, lower toxicity, and reduced carbon emissions. This alignment with consumer ethics and environmental concerns encourages manufacturers to invest in and market more aggressively, thus propelling the market forward. This consumer-driven demand is especially pronounced in developed economies, where there is a higher awareness and willingness to invest in sustainable options.

Bio-Lubricants Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on base oil type, application, and end use industry.

Breakup by Base Oil Type:

Vegetable Oils
Animal Fats

Animal fats dominate the market

The report has provided a detailed breakup and analysis of the market based on the base oil type. This includes vegetable oils and animal fats. According to the report, animal fats represented the largest segment.

Breakup by Application:

Hydraulic Fluids
Metalworking Fluids
Chainsaw Oils
Mold Release Agents
Two-Cycle Engine Oils
Gear Oils and Greases
Others

Two-cycle engine oils hold the largest share in the market

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes hydraulic fluids, metalworking fluids, chainsaw oils, mold release agents, two-cycle engine oils, gear oils and greases, and others. According to the report, two-cycle engine oils accounted for the largest market share.

Breakup by End Use Industry:

Power Generation
Automotive
Heavy Equipment
Food & Beverage
Metallurgy & Metalworking
Chemical Manufacturing
Others

Automotive holds the largest share of the market

A detailed breakup and analysis of the market based on the end use industry has also been provided in the report. This includes power generation, automotive, heavy equipment, food & beverage, metallurgy & metalworking, chemical manufacturing, and others. According to the report, automotive accounted for the largest market share.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America leads the market, accounting for the largest bio-lubricants market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Albemarle Corporation

BP Plc

Chevron Corporation

Emery Oleochemicals

Exxon Mobil Corporation

Fuchs Petrolub SE

KI?ber Lubrication M?nchen SE & Co. KG (Freudenberg Chemical Specialities SE & Co. KG)

Panolin AG

Polnox Corporation

Quaker Chemical Corporation

Royal Dutch Shell PLC

Total SE

Key Questions Answered in This Report

1. What was the size of the global bio-lubricants market in 2023?
2. What is the expected growth rate of the global bio-lubricants market during 2024-2032?
3. What are the key factors driving the global bio-lubricants market?
4. What has been the impact of COVID-19 on the global bio-lubricants market?
5. What is the breakup of the global bio-lubricants market based on the base oil type?
6. What is the breakup of the global bio-lubricants market based on application?
7. What is the breakup of the global bio-lubricants market based on the end use industry?
8. What are the key regions in the global bio-lubricants market?
9. Who are the key players/companies in the global bio-lubricants market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL BIO-LUBRICANTS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY BASE OIL TYPE

- 6.1 Vegetable Oils
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Animal Fats
 - 6.2.1 Market Trends

6.2.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Hydraulic Fluids

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Metalworking Fluids

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Chainsaw Oils

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Mold Release Agents

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Two-Cycle Engine Oils

7.5.1 Market Trends

7.5.2 Market Forecast

7.6 Gear Oils and Greases

7.6.1 Market Trends

7.6.2 Market Forecast

7.7 Others

7.7.1 Market Trends

7.7.2 Market Forecast

8 MARKET BREAKUP BY END USE INDUSTRY

8.1 Power Generation

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Automotive

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Heavy Equipment

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Food & Beverage

8.4.1 Market Trends

- 8.4.2 Market Forecast
- 8.5 Metallurgy & Metalworking
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
- 8.6 Chemical Manufacturing
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast
- 8.7 Others
 - 8.7.1 Market Trends
 - 8.7.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast

- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Albemarle Corporation
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 BP Plc
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
 - 14.3.2.4 SWOT Analysis

- 14.3.3 Chevron Corporation
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 Financials
 - 14.3.3.4 SWOT Analysis
- 14.3.4 Emery Oleochemicals
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
- 14.3.5 Exxon Mobil Corporation
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 Fuchs Petrolub SE
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 KI?ber Lubrication M?nchen SE & Co. KG (Freudenberg Chemical Specialities SE & Co. KG)
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 Panolin AG
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Polnox Corporation
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Quaker Chemical Corporation
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Royal Dutch Shell PLC
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
- 14.3.12 Total SE
 - 14.3.12.1 Company Overview

14.3.12.2 Product Portfolio

14.3.12.3 Financials

14.3.12.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Bio-lubricants Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Bio-lubricants Market Forecast: Breakup by Base Oil Type (in Million US\$), 2024-2032

Table 3: Global: Bio-lubricants Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Bio-lubricants Market Forecast: Breakup by End Use Industry (in Million US\$), 2024-2032

Table 5: Global: Bio-lubricants Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Bio-lubricants Market: Competitive Structure

Table 7: Global: Bio-lubricants Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Bio-lubricants Market: Major Drivers and Challenges

Figure 2: Global: Bio-lubricants Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Bio-lubricants Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Bio-lubricants Market: Breakup by Base Oil Type (in %), 2023

Figure 5: Global: Bio-lubricants Market: Breakup by Application (in %), 2023

Figure 6: Global: Bio-lubricants Market: Breakup by End Use Industry (in %), 2023

Figure 7: Global: Bio-lubricants Market: Breakup by Region (in %), 2023

Figure 8: Global: Bio-lubricants (Vegetable Oils) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Bio-lubricants (Vegetable Oils) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Bio-lubricants (Animal Fats) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Bio-lubricants (Animal Fats) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Bio-lubricants (Hydraulic Fluids) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Bio-lubricants (Hydraulic Fluids) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Bio-lubricants (Metalworking Fluids) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Bio-lubricants (Metalworking Fluids) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Bio-lubricants (Chainsaw Oils) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Bio-lubricants (Chainsaw Oils) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Bio-lubricants (Mold Release Agents) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Bio-lubricants (Mold Release Agents) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Bio-lubricants (Two-Cycle Engine Oils) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Bio-lubricants (Two-Cycle Engine Oils) Market Forecast: Sales Value

(in Million US\$), 2024-2032

Figure 22: Global: Bio-lubricants (Gear Oils and Greases) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Bio-lubricants (Gear Oils and Greases) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Bio-lubricants (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Bio-lubricants (Others) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Bio-lubricants (Power Generation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Bio-lubricants (Power Generation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Bio-lubricants (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Bio-lubricants (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Bio-lubricants (Heavy Equipment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Bio-lubricants (Heavy Equipment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Bio-lubricants (Food & Beverage) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Bio-lubricants (Food & Beverage) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Bio-lubricants (Metallurgy & Metalworking) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Bio-lubricants (Metallurgy & Metalworking) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: Bio-lubricants (Chemical Manufacturing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: Bio-lubricants (Chemical Manufacturing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Global: Bio-lubricants (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Global: Bio-lubricants (Others) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: North America: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: North America: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: United States: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: United States: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Canada: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Canada: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Asia-Pacific: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Asia-Pacific: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: China: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: China: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: Japan: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: Japan: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: India: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: India: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: South Korea: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: South Korea: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Australia: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Australia: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Indonesia: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Indonesia: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Others: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Others: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: Europe: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Europe: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Germany: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: Germany: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: France: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: France: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: United Kingdom: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: United Kingdom: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Italy: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Italy: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Spain: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Spain: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Russia: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Russia: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Others: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Others: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: Latin America: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Latin America: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 80: Brazil: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 81: Brazil: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 82: Mexico: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 83: Mexico: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 84: Others: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 85: Others: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 86: Middle East and Africa: Bio-lubricants Market: Sales Value (in Million US\$), 2018 & 2023

Figure 87: Middle East and Africa: Bio-lubricants Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 88: Middle East and Africa: Bio-lubricants Market: Breakup by Country (in %),

2023

Figure 89: Global: Bio-lubricants Industry: SWOT Analysis

Figure 90: Global: Bio-lubricants Industry: Value Chain Analysis

Figure 91: Global: Bio-lubricants Industry: Porter's Five Forces Analysis

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