

## **BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW**

### **Summary**

Global plant-based lubricants industry, in particular, is as yet in a nascent stage, though emergent regulatory impacts on lubricants offer the potential for increasing the consumption of biolubricants over the coming decade. Regulatory actions from the United States government have already specified a minimum renewable content for a range of product categories, with the US Air Force also coming forward in supporting the use of plant-derived bio-based products as a fundamental and strategic approach to national security.

Chemical registration policies in the European Union, the United States and China would also play a crucial role in incentivizing greater adoption of biolubricants. Legislations related to emissions and the constantly increasing oil change intervals that reduce unit volumes could be viewed as challenges and restraints for the biolubricants market. While the historic price levels of refined vegetable oils have been considerably higher compared to traditional petroleum base stocks, the recent years have witnessed a narrowing down of this price differential. This trend augurs well for the future, when price increases in petroleum base oils would become a significant driver that would increase the cost competitiveness of vegetable-based base oils in the formulation of lubricants.

Worldwide market for Biolubricant product categories explored in this study includes Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases. The report also focuses on end-use markets for biolubricants comprising Automotive & Transportation, Commercial/Industrial and Others. The global markets for the above mentioned product categories and end-use applications are analyzed in both value in USD and the volumes in pounds (lbs). Global volume consumption of Biolubricants, estimated at 1.3 million pounds in 2013, valued at about US\$2 billion, and forecast at 1.4 million pounds (US\$2.1 billion) in 2014, is further expected to maintain a CAGR of 5.5% between 2010 and 2020 to reach a projected 1.9 million pounds, of value US\$3 billion, by 2020.

This report reviews, analyses and projects the biolubricants market for global and the regional markets including North America, Europe, Asia-Pacific and Rest of World. The regional markets further analyzed for 12 independent countries across North America – The United States and Canada; Europe – Germany, Scandinavia, Italy, Benelux, Switzerland and Austria; Asia-Pacific –China, Japan, India and South Korea.

The study includes 347 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 32 key global players and 46 major players across North America – 23; Europe – 20; and Asia-Pacific – 3. The research also provides the listing of the companies engaged in manufacturing and supply of biolubricants. The global list of companies covers addresses, contact numbers and the website addresses of 65 companies.

For more information: [Biolubricants – A Global Market Overview](#)

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

### TABLE OF CONTENTS

#### PART A: GLOBAL MARKET PERSPECTIVE

**1. INTRODUCTION**

1.1.5.4 Mold Release Agents

1.1.5.4.1 Gear Oils

1.1 Product Outline

1.1.1 Base Oils of Biolubricants

1.1.1.1 Vegetable Oils

1.1.1.2 Synthetic Oils

1.1.1.2.1 Polyalphaolefins (PAOs)

1.1.1.2.2 Esters

1.1.1.2.3 Polyalkylene Glycols (Also Called Polyglycols or PAGs)

1.1.2 Recommended Condition Limits for Biodegradable Fluids

1.1.3 Maintenance and Monitoring of Biolubricants

1.1.4 Advantages of Biolubricants

1.1.5 Applications of Biolubricants

1.1.5.1 Hydraulic Fluids

1.1.5.2 Metalworking Fluids

1.1.5.2.1 Metal Forming Fluids

1.1.5.3 Chainsaw Lubricants

1.1.5.4.2 Gearing Applications

1.1.5.4.3 Gear Grinding

1.1.5.5 Two-Stroke Engine Oils

1.1.5.6 Greases

1.1.5.7 Other Applications

1.1.5.7.1 Cutting Fluids

1.1.5.7.2 Marine Lubricants

1.1.5.7.3 Drilling Fluids

1.1.5.7.4 Slideway Oils

1.1.5.7.5 Machining Process Oils

1.1.5.7.6 Bio-Based Coolants

1.1.6 Laws and Regulations Pertaining To Biolubricants in Europe

1.1.7 Drivers and Restraints for Biolubricants

1.1.8 Auto Sector Fuels Growth in Biolubricants

1.1.9 Biolubricants for Marine Applications Gaining Ground Due to New Legislations

#### 2. KEY GLOBAL PLAYERS

#### 3. KEY BUSINESS TRENDS

Clarion Releases Two Novel Green Lubricants

Elevance Introduces its Latest Developments in Renewable Synthetic Lubricant Basestocks

Launch of LUBECO™ Biolubricants at WoodEXPO 2013 in Australia and New Zealand

EU Ecolabel Certification for Klüberbio Lubes

Mass Production of Biosynthetic Motor Oil by Biosynthetic Technologies

ExxonMobil Launches its Novel Mobil SHC Aware Family

Oil Change Services in Spokane WA Provides Enhanced Fuel Efficiency for Vehicles

Launch of Emery Oleochemicals' High Performance Biolubricant

Solutions at the Largest International Exhibition for the Lubricant Industry in China

Release of VGP by the US EPA

Environmental Certification Received by Sinopec

Novel Procurement Preferences for Bio-based Engine Oils Revised by USDA

Biodegradable and Environmentally Acceptable Lubricants for Global Fleet Protection

Development of Environmentally Safe Biolubricants for Use in Agriculture

Cuba's Research to Produce Waste-based Biolubricants

Emery Oleochemicals Plans to Unveil its Natural-Based Bio-Lubricant Solutions at STLE

Controlling Stake in Terresolve Technologies Acquired by Blumenthal Holdings

Commercial Launch of Novel Smart Earth EcoLube Lubricant in Canada

Klüber Lubrication to Demonstrate its Latest Lubrication Solutions at MINExpo INTERNATIONAL 2012

Coconut Oil Officially Approved as an Engine Lubricant

Castrol Introduces the Product Line of Performance Biolubes

Castrol Debuts Novel Performance Biolubes

Reinvestment at Bromborough Site by Aeternum Capital

Commercial Release of ECO Ultra® CNG and Green Earth Brand Products in the US

Total and Amyris Broaden their R&D Alliance to Develop Renewable Fuels

Amyris Launches its Novel Product Line of Industrial Lubricants in California

Biolubricants Sector SMEs Formulate Novel Lubricants with IBIOLAB's Support

Production of Bio-Derived Base Oils and Release of Clean Power Lubricants & Conditioners

#### 4. GLOBAL MARKET OVERVIEW

4.1 Global Biolubricants Market Overview by Product Category

4.1.1 Global Biolubricant Product Category Market Overview by Region

4.1.1.1 Hydraulic Fluids

4.1.1.2 Metalworking Fluids

4.1.1.3 Chainsaw Lubricants

4.1.1.4 Mold Release Agents

4.1.1.5 Gear Oils

4.1.1.6 Two-Stroke Engine Oils

4.1.1.7 Greases

4.2 Global Biolubricants Market Overview by Application

4.2.1 Global Biolubricant Applications Market Overview by Region

4.2.1.1 Automotive & Transportation Applications

4.2.1.2 Commercial/Industrial Applications

4.2.1.3 Other Applications

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

### PART B: REGIONAL MARKET PERSPECTIVE

#### REGIONAL MARKET OVERVIEW

##### 1. NORTH AMERICA

- 1.1 North American Biolubricants Market Overview by Geographic Region
- 1.2 North American Biolubricants Market Overview by Product Category
  - 1.2.1 North American Biolubricant Product Category Market Overview by Region
    - 1.2.1.1 Hydraulic Fluids
    - 1.2.1.2 Metalworking Fluids
    - 1.2.1.3 Chainsaw Lubricants
    - 1.2.1.4 Mold Release Agents
    - 1.2.1.5 Gear Oils
    - 1.2.1.6 Two-Stroke Engine Oils
    - 1.2.1.7 Greases
  - 1.3 North American Biolubricants Market Overview by Application
    - 1.3.1 North American Biolubricant Applications Market Overview by Region
      - 1.3.1.1 Automotive & Transportation Applications
      - 1.3.1.2 Commercial/Industrial Applications
      - 1.3.1.3 Other Applications
    - 1.4 Major Market Players
      - Albemarle Corporation (United States)
      - Bioblend Renewable Resources, Llc (United States)
      - Biosynthetic Technologies (United States)
      - Clarion Lubricants (United States)
      - Desilube Technology, Inc. (United States)
      - Dsi Ventures, Inc. (United States)
      - Environmental Lubricants Manufacturing, Inc. (United States)
      - Exxon Mobil Corporation (United States)
      - Gemtek® Products, Llc (United States)
      - Green Earth Technologies, Inc. (United States)
      - Houghton International Inc. (United States)
      - Maryn International Ltd. (Canada)
      - Neatsfoot Oil Refineries Corporation (United States)
      - Novvi SA (United States)
      - Polnox Corporation (United States)
      - Renewable Lubricants Inc. (United States)
      - Rsc Bio Solutions, Llc (United States)
      - Rydol Products Inc. (United States)
      - Smart Earth Lubricants (Canada)
      - Terresolve Technologies, Ltd. (United States)
      - The Hill and Griffith Company (United States)
      - Unist, Inc. (United States)
      - United Bio Lube (United States)
  - 1.5 North American Biolubricants Market Overview by Country
    - 1.5.1 The United States
      - 1.5.1.1 United States Biolubricants Market Overview by Product

##### Category

- 1.5.1.2 United States Biolubricants Market Overview by Application
- 1.5.2 Canada
  - 1.5.2.1 Canadian Biolubricants Market Overview by Product Category
  - 1.5.2.2 Canadian Biolubricants Market Overview by Application

##### 2. EUROPE

- 2.1 European Biolubricants Market Overview by Geographic Region
- 2.2 European Biolubricants Market Overview by Product Category
  - 2.2.1 European Biolubricant Product Category Market Overview by Region
    - 2.2.1.1 Hydraulic Fluids
    - 2.2.1.2 Metalworking Fluids
    - 2.2.1.3 Chainsaw Lubricants
    - 2.2.1.4 Mold Release Agents
    - 2.2.1.5 Gear Oils
    - 2.2.1.6 Two-Stroke Engine Oils
    - 2.2.1.7 Greases
  - 2.3 European Biolubricants Market Overview by Application
    - 2.3.1 European Biolubricant Applications Market Overview by Region
      - 2.3.1.1 Automotive & Transportation Applications
      - 2.3.1.2 Commercial/Industrial Applications
      - 2.3.1.3 Other Applications
    - 2.4 Major Market Players
      - Aarhuskarlshamn AB (Sweden)
      - Binol Biolubricants (Sweden)
      - Benjn R. Vickers & Sons Ltd. (United Kingdom)
      - Biona Jersín, s.r.o. (Czech Republic)
      - BP P.L.C. (United Kingdom)
      - Castrol Industrial North America Inc. (United States)
      - BP Marine Limited (United Kingdom)
      - Carl Bechem Gmbh (Germany)
      - Fuchs Petrolub AG (Germany)
      - IGOL France (France)
      - Kajo Chemie GmbH (Germany)
      - Klüber Lubrication München Se & Co. KG (Germany)
      - Miller Oils Ltd. (United Kingdom)
      - Opet Fuchs Madeni Yag Sanayi Ve Ticaret A.S. (Turkey)
      - Panolin AG / Panolin International Inc. (Switzerland)
      - Rhein Chemie Rheinau GmbH (Germany)
      - Rowe Mineralölwerk GmbH (Germany)
      - Total S.A. (France)
      - Total Lubrifiants S.A. (France)
      - Wärtsilä Corporation (Finland)
  - 2.5 European Biolubricants Market Overview by Country
    - 2.5.1 Germany
      - 2.5.1.1 German Biolubricants Market Overview by Product Category
      - 2.5.1.2 German Biolubricants Market Overview by Application

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

- 2.5.2 Scandinavia
  - 2.5.2.1 Scandinavian Biolubricants Market Overview by Product Category
  - 2.5.2.2 Scandinavian Biolubricants Market Overview by Application
- 2.5.3 Italy
  - 2.5.3.1 Italian Biolubricants Market Overview by Product Category
  - 2.5.3.2 Italian Biolubricants Market Overview by Application
- 2.5.4 Benelux
  - 2.5.4.1 Benelux Biolubricants Market Overview by Product Category
  - 2.5.4.2 Benelux Biolubricants Market Overview by Application
- 2.5.5 Switzerland
  - 2.5.5.1 Swiss Biolubricants Market Overview by Product Category
  - 2.5.5.2 Swiss Biolubricants Market Overview by Application
- 2.5.6 Austria
  - 2.5.6.1 Austrian Biolubricants Market Overview by Product Category
  - 2.5.6.2 Austrian Biolubricants Market Overview by Application
- 2.5.7 Rest of Europe
  - 2.5.7.1 Rest of Europe Biolubricants Market Overview by Product Category
  - 2.5.7.2 Rest of Europe Biolubricants Market Overview by Application
- 3. ASIA-PACIFIC**
  - 3.1 Asia-Pacific Biolubricants Market Overview by Geographic Region
    - 3.2 Asia-Pacific Biolubricants Market Overview by Product Category
      - 3.2.1 Asia-Pacific Biolubricant Product Category Market Overview by Region
        - 3.2.1.1 Hydraulic Fluids
        - 3.2.1.2 Metalworking Fluids
        - 3.2.1.3 Chainsaw Lubricants
        - 3.2.1.4 Mold Release Agents
        - 3.2.1.5 Gear Oils
        - 3.2.1.6 Two-Stroke Engine Oils
        - 3.2.1.7 Greases
      - 3.3 Asia-Pacific Biolubricants Market Overview by Application
        - 3.3.1 Asia-Pacific Biolubricant Applications Market Overview by Region
          - 3.3.1.1 Automotive & Transportation Applications
          - 3.3.1.2 Commercial/Industrial Applications
          - 3.3.1.3 Other Applications
        - 3.4 Major Market Players
          - Emery Oleochemicals Group (Malaysia)
          - Mint Biofuels Ltd. (India)
          - Pacific Bio Lubricants Ltd. (New Zealand)
    - 3.5 Asia-Pacific Biolubricants Market Overview by Country
      - 3.5.1 China
        - 3.5.1.1 Chinese Biolubricants Market Overview by Product Category
        - 3.5.1.2 Chinese Biolubricants Market Overview by Application

- 3.5.2 Japan
  - 3.5.2.1 Japanese Biolubricants Market Overview by Product Category
  - 3.5.2.2 Japanese Biolubricants Market Overview by Application
- 3.5.3 India
  - 3.5.3.1 Indian Biolubricants Market Overview by Product Category
  - 3.5.3.2 Indian Biolubricants Market Overview by Application
- 3.5.4 South Korea
  - 3.5.4.1 Korean Biolubricants Market Overview by Product Category
  - 3.5.4.2 Korean Biolubricants Market Overview by Application
- 3.5.5 Rest of Asia-Pacific
  - 3.5.5.1 Rest of Asia-Pacific Biolubricants Market Overview by Product Category
  - 3.5.5.2 Rest of Asia-Pacific Biolubricants Market Overview by Application
- 4. REST OF WORLD**
  - 4.1 Rest of World Biolubricants Market Overview by Product Category
  - 4.2 Rest of World Biolubricants Market Overview by Application

### PART C: GUIDE TO THE INDUSTRY

- 1. NORTH AMERICA
  - 1.1 Canada
  - 1.2 United States
- 2. EUROPE
  - 2.1 Belgium
  - 2.2 Czech Republic
  - 2.3 Finland
  - 2.4 France
  - 2.5 Germany
  - 2.6 Ireland
  - 2.7 Sweden
  - 2.8 Switzerland
  - 2.9 Turkey
  - 2.10 United Kingdom
- 3. ASIA-PACIFIC
  - 3.1 India
  - 3.2 Malaysia
  - 3.3 New Zealand

### PART D: ANNEXURE

- 1. RESEARCH METHODOLOGY
- 2. FEED BACK

### Charts & Graphs

#### PART A: GLOBAL MARKET PERSPECTIVE

- Chart 1: Global Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million
- Chart 2: Global Biolubricants Market Overview (2010-2020) by

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 3: Glance at 2010, 2015 and 2020 Global Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 4: Global Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 5: Glance at 2010, 2015 and 2020 Global Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 6: Global Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 7: Glance at 2010, 2015 and 2020 Global Biolubricant Hydraulic Fluids Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 8: Global Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 9: Glance at 2010, 2015 and 2020 Global Biolubricant Hydraulic Fluids Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 10: Global Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 11: Glance at 2010, 2015 and 2020 Global Biolubricant Metalworking Fluids Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 12: Global Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 13: Glance at 2010, 2015 and 2020 Global Biolubricant Metalworking Fluids Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 14: Global Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 15: Glance at 2010, 2015 and 2020 Global Biolubricant Chainsaw Lubricants Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 16: Global Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 17: Glance at 2010, 2015 and 2020 Global Biolubricant Chainsaw Lubricants Value Market Share (%) by Region – North

America, Europe, Asia-Pacific and Rest of World

Chart 18: Global Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 19: Glance at 2010, 2015 and 2020 Global Biolubricant Mold Release Agents Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 20: Global Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 21: Glance at 2010, 2015 and 2020 Global Biolubricant Mold Release Agents Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 22: Global Biolubricant Gear Oils Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 23: Glance at 2010, 2015 and 2020 Global Biolubricant Gear Oils Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 24: Global Biolubricant Gear Oils Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 25: Glance at 2010, 2015 and 2020 Global Biolubricant Gear Oils Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 26: Global Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 27: Glance at 2010, 2015 and 2020 Global Biolubricant Two-Stroke Engine Oils Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 28: Global Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 29: Glance at 2010, 2015 and 2020 Global Biolubricant Two-Stroke Engine Oils Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 30: Global Biolubricant Greases Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 31: Glance at 2010, 2015 and 2020 Global Biolubricant Greases Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 32: Global Biolubricant Greases Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 33: Glance at 2010, 2015 and 2020 Global Biolubricant Greases Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 34: Global Biolubricants Market Overview (2010-2020) by

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 35: Glance at 2010, 2015 and 2020 Global Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 36: Global Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 37: Glance at 2010, 2015 and 2020 Global Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 38: Global Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 39: Glance at 2010, 2015 and 2020 Global Biolubricants Volume Market Share (%) in Automotive & Transportation Applications by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 40: Global Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 41: Glance at 2010, 2015 and 2020 Global Biolubricants Value Market Share (%) in Automotive & Transportation Applications by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 42: Global Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 43: Glance at 2010, 2015 and 2020 Global Biolubricants Volume Market Share (%) in Commercial/Industrial Applications by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 44: Global Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 45: Glance at 2010, 2015 and 2020 Global Biolubricants Value Market Share (%) in Commercial/Industrial Applications by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 46: Global Biolubricants Overview (2010-2020) in Other Applications by Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 47: Glance at 2010, 2015 and 2020 Global Biolubricants Volume Market Share (%) in Other Applications by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 48: Global Biolubricants Overview (2010-2020) in Other Applications by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 49: Glance at 2010, 2015 and 2020 Global Biolubricants Value Market Share (%) in Other Applications by Region – North America, Europe, Asia-Pacific and Rest of World

### PART B: REGIONAL MARKET PERSPECTIVE

Chart 50: Global Biolubricants Market Overview (2010-2020) by

Region – North America, Europe, Asia-Pacific and Rest of World in '000 Pounds

Chart 51: Glance at 2010, 2015 and 2020 Global Biolubricants Volume Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

Chart 52: Global Biolubricants Market Overview (2010-2020) by Region – North America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 53: Glance at 2010, 2015 and 2020 Global Biolubricants Value Market Share (%) by Region – North America, Europe, Asia-Pacific and Rest of World

### REGIONAL MARKET OVERVIEW

#### NORTH AMERICA

Chart 54: North American Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 55: North American Biolubricants Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 56: Glance at 2010, 2015 and 2020 North American Biolubricants Volume Market Share (%) by Region – United States and Canada

Chart 57: North American Biolubricants Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 58: Glance at 2010, 2015 and 2020 North American Biolubricants Value Market Share (%) by Region – United States and Canada

Chart 59: North American Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 60: Glance at 2010, 2015 and 2020 North American Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 61: North American Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 62: Glance at 2010, 2015 and 2020 North American Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 63: North American Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 64: Glance at 2010, 2015 and 2020 North American Biolubricant Hydraulic Fluids Volume Market Share (%) by Region – United States and Canada

Chart 65: North American Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – United States and Canada in USD Million

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Chart 66: Glance at 2010, 2015 and 2020 North American Biolubricant Hydraulic Fluids Value Market Share (%) by Region – United States and Canada

Chart 67: North American Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 68: Glance at 2010, 2015 and 2020 North American Biolubricant Metalworking Fluids Volume Market Share (%) by Region – United States and Canada

Chart 69: North American Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 70: Glance at 2010, 2015 and 2020 North American Biolubricant Metalworking Fluids Value Market Share (%) by Region – United States and Canada

Chart 71: North American Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 72: Glance at 2010, 2015 and 2020 North American Biolubricant Chainsaw Lubricants Volume Market Share (%) by Region – United States and Canada

Chart 73: North American Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 74: Glance at 2010, 2015 and 2020 North American Biolubricant Chainsaw Lubricants Value Market Share (%) by Region – United States and Canada

Chart 75: North American Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 76: Glance at 2010, 2015 and 2020 North American Biolubricant Mold Release Agents Volume Market Share (%) by Region – United States and Canada

Chart 77: North American Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 78: Glance at 2010, 2015 and 2020 North American Biolubricant Mold Release Agents Value Market Share (%) by Region – United States and Canada

Chart 79: North American Biolubricant Gear Oils Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 80: Glance at 2010, 2015 and 2020 North American Biolubricant Gear Oils Volume Market Share (%) by Region – United States and Canada

Chart 81: North American Biolubricant Gear Oils Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 82: Glance at 2010, 2015 and 2020 North American Biolubricant Gear Oils Value Market Share (%) by Region – United States and Canada

Chart 83: North American Biolubricant Two-Stroke Engine Oils

Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 84: Glance at 2010, 2015 and 2020 North American Biolubricant Two-Stroke Engine Oils Volume Market Share (%) by Region – United States and Canada

Chart 85: North American Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 86: Glance at 2010, 2015 and 2020 North American Biolubricant Two-Stroke Engine Oils Value Market Share (%) by Region – United States and Canada

Chart 87: North American Biolubricant Greases Market Overview (2010-2020) by Region – United States and Canada in '000 Pounds

Chart 88: Glance at 2010, 2015 and 2020 North American Biolubricant Greases Volume Market Share (%) by Region – United States and Canada

Chart 89: North American Biolubricant Greases Market Overview (2010-2020) by Region – United States and Canada in USD Million

Chart 90: Glance at 2010, 2015 and 2020 North American Biolubricant Greases Value Market Share (%) by Region – United States and Canada

Chart 91: North American Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 92: Glance at 2010, 2015 and 2020 North American Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 93: North American Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 94: Glance at 2010, 2015 and 2020 North American Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 95: North American Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – United States and Canada in '000 Pounds

Chart 96: Glance at 2010, 2015 and 2020 North American Biolubricants Volume Market Share (%) in Automotive & Transportation Applications by Region – United States and Canada

Chart 97: North American Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – United States and Canada in USD Million

Chart 98: Glance at 2010, 2015 and 2020 North American Biolubricants Value Market Share (%) in Automotive & Transportation Applications by Region – United States and Canada

Chart 99: North American Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – United States and Canada in '000 Pounds

Chart 100: Glance at 2010, 2015 and 2020 North American Biolubricants Volume Market Share (%) in Commercial/Industrial

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Applications by Region – United States and Canada

Chart 101: North American Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – United States and Canada in USD Million

Chart 102: Glance at 2010, 2015 and 2020 North American Biolubricants Value Market Share (%) in Commercial/Industrial Applications by Region – United States and Canada

Chart 103: North American Biolubricants Overview (2010-2020) in Other Applications by Region – United States and Canada in '000 Pounds

Chart 104: Glance at 2010, 2015 and 2020 North American Biolubricants Volume Market Share (%) in Other Applications by Region – United States and Canada

Chart 105: North American Biolubricants Overview (2010-2020) in Other Applications by Region – United States and Canada in USD Million

Chart 106: Glance at 2010, 2015 and 2020 North American Biolubricants Value Market Share (%) in Other Applications by Region – United States and Canada

The United States

Chart 107: United States Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 108: United States Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 109: Glance at 2010, 2015 and 2020 United States Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 110: United States Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 111: Glance at 2010, 2015 and 2020 United States Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 112: United States Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 113: Glance at 2010, 2015 and 2020 United States Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 114: United States Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 115: Glance at 2010, 2015 and 2020 United States Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Canada

Chart 116: Canadian Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 117: Canadian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 118: Glance at 2010, 2015 and 2020 Canadian Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 119: Canadian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 120: Glance at 2010, 2015 and 2020 Canadian Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 121: Canadian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 122: Glance at 2010, 2015 and 2020 Canadian Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 123: Canadian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 124: Glance at 2010, 2015 and 2020 Canadian Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

EUROPE

Chart 125: European Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 126: European Biolubricants Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 127: Glance at 2010, 2015 and 2020 European Biolubricants Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 128: European Biolubricants Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 129: Glance at 2010, 2015 and 2020 European Biolubricants Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 130: European Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds



## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Chart 131: Glance at 2010, 2015 and 2020 European Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 132: European Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 133: Glance at 2010, 2015 and 2020 European Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 134: European Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 135: Glance at 2010, 2015 and 2020 European Hydraulic Fluids Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 136: European Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 137: Glance at 2010, 2015 and 2020 European Hydraulic Fluids Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 138: European Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 139: Glance at 2010, 2015 and 2020 European Metalworking Fluids Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 140: European Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 141: Glance at 2010, 2015 and 2020 European Metalworking Fluids Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 142: European Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 143: Glance at 2010, 2015 and 2020 European Chainsaw Lubricants Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 144: European Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 145: Glance at 2010, 2015 and 2020 European Chainsaw Lubricants Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 146: European Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy,

Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 147: Glance at 2010, 2015 and 2020 European Mold Release Agents Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 148: European Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 149: Glance at 2010, 2015 and 2020 European Mold Release Agents Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 150: European Biolubricant Gear Oils Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 151: Glance at 2010, 2015 and 2020 European Gear Oils Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 152: European Biolubricant Gear Oils Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 153: Glance at 2010, 2015 and 2020 European Gear Oils Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 154: European Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 155: Glance at 2010, 2015 and 2020 European Two-Stroke Engine Oils Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 156: European Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 157: Glance at 2010, 2015 and 2020 European Two-Stroke Engine Oils Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 158: European Biolubricant Greases Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 159: Glance at 2010, 2015 and 2020 European Greases Volume Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 160: European Biolubricant Greases Market Overview (2010-2020) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 161: Glance at 2010, 2015 and 2020 European Biolubricant Greases Value Market Share (%) by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 162: European Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 163: Glance at 2010, 2015 and 2020 European Biolubricants

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 164: European Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 165: Glance at 2010, 2015 and 2020 European Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 166: European Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 167: Glance at 2010, 2015 and 2020 European Biolubricants Volume Market Share (%) in Automotive & Transportation Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 168: European Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 169: Glance at 2010, 2015 and 2020 European Biolubricants Value Market Share (%) in Automotive & Transportation Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 170: European Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 171: Glance at 2010, 2015 and 2020 European Biolubricants Volume Market Share (%) in Commercial/Industrial Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 172: European Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 173: Glance at 2010, 2015 and 2020 European Biolubricants Value Market Share (%) in Commercial/Industrial Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 174: European Biolubricants Overview (2010-2020) in Other Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in '000 Pounds

Chart 175: Glance at 2010, 2015 and 2020 European Biolubricants Volume Market Share (%) in Other Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Chart 176: European Biolubricants Overview (2010-2020) in Other Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe in USD Million

Chart 177: Glance at 2010, 2015 and 2020 European Biolubricants Value Market Share (%) in Other Applications by Region – Germany, Scandinavia, Italy, Benelux, Switzerland, Austria and Rest of Europe

Germany

Chart 178: German Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 179: German Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 180: Glance at 2010, 2015 and 2020 German Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 181: German Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 182: Glance at 2010, 2015 and 2020 German Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 183: German Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 184: Glance at 2010, 2015 and 2020 German Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 185: German Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 186: Glance at 2010, 2015 and 2020 German Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Scandinavia

Chart 187: Scandinavian Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 188: Scandinavian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 189: Glance at 2010, 2015 and 2020 Scandinavian Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 190: Scandinavian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 191: Glance at 2010, 2015 and 2020 Scandinavian

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 192: Scandinavian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation,

Commercial/Industrial and Other Applications in '000 Pounds

Chart 193: Glance at 2010, 2015 and 2020 Scandinavian

Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 194: Scandinavian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation,

Commercial/Industrial and Other Applications in USD Million

Chart 195: Glance at 2010, 2015 and 2020 Scandinavian

Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Italy

Chart 196: Italian Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 197: Italian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 198: Glance at 2010, 2015 and 2020 Italian Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 199: Italian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 200: Glance at 2010, 2015 and 2020 Italian Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 201: Italian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 202: Glance at 2010, 2015 and 2020 Italian Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 203: Italian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 204: Glance at 2010, 2015 and 2020 Italian Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Benelux

Chart 205: Benelux Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 206: Benelux Biolubricants Market Overview (2010-2020) by

Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 207: Glance at 2010, 2015 and 2020 Benelux Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids,

Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 208: Benelux Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw

Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 209: Glance at 2010, 2015 and 2020 Benelux Biolubricants Value Market Share (%) by Category – Hydraulic Fluids,

Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 210: Benelux Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 211: Glance at 2010, 2015 and 2020 Benelux Biolubricants Volume Market Share (%) by Application – Automotive &

Transportation, Commercial/Industrial and Other Applications

Chart 212: Benelux Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 213: Glance at 2010, 2015 and 2020 Benelux Biolubricants Value Market Share (%) by Application – Automotive &

Transportation, Commercial/Industrial and Other Applications

Switzerland

Chart 214: Swiss Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 215: Swiss Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw

Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 216: Glance at 2010, 2015 and 2020 Swiss Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids,

Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 217: Swiss Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw

Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 218: Glance at 2010, 2015 and 2020 Swiss Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking

Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 219: Swiss Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 220: Glance at 2010, 2015 and 2020 Swiss Biolubricants

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications  
Chart 221: Swiss Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million  
Chart 222: Glance at 2010, 2015 and 2020 Swiss Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### Austria

Chart 223: Austrian Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million  
Chart 224: Austrian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds  
Chart 225: Glance at 2010, 2015 and 2020 Austrian Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases  
Chart 226: Austrian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million  
Chart 227: Glance at 2010, 2015 and 2020 Austrian Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases  
Chart 228: Austrian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds  
Chart 229: Glance at 2010, 2015 and 2020 Austrian Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications  
Chart 230: Austrian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million  
Chart 231: Glance at 2010, 2015 and 2020 Austrian Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### Rest of Europe

Chart 232: Rest of Europe Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million  
Chart 233: Rest of Europe Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds  
Chart 234: Glance at 2010, 2015 and 2020 Rest of Europe Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 235: Rest of Europe Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million  
Chart 236: Glance at 2010, 2015 and 2020 Rest of Europe Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases  
Chart 237: Rest of Europe Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds  
Chart 238: Glance at 2010, 2015 and 2020 Rest of Europe Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications  
Chart 239: Rest of Europe Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million  
Chart 240: Glance at 2010, 2015 and 2020 Rest of Europe Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### ASIA-PACIFIC

Chart 241: Asia-Pacific Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million  
Chart 242: Asia-Pacific Biolubricants Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds  
Chart 243: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific  
Chart 244: Asia-Pacific Biolubricants Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million  
Chart 245: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific  
Chart 246: Asia-Pacific Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds  
Chart 247: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases  
Chart 248: Asia-Pacific Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million  
Chart 249: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents,

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Gear Oils, Two-Stroke Engine Oils and Greases

Chart 250: Asia-Pacific Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 251: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Hydraulic Fluids Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 252: Asia-Pacific Biolubricant Hydraulic Fluids Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 253: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Hydraulic Fluids Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 254: Asia-Pacific Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 255: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Metalworking Fluids Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 256: Asia-Pacific Biolubricant Metalworking Fluids Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 257: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Metalworking Fluids Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 258: Asia-Pacific Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 259: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Chainsaw Lubricants Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 260: Asia-Pacific Biolubricant Chainsaw Lubricants Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 261: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Chainsaw Lubricants Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 262: Asia-Pacific Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 263: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Mold Release Agents Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 264: Asia-Pacific Biolubricant Mold Release Agents Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 265: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Mold Release Agents Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 266: Asia-Pacific Biolubricant Gear Oils Market Overview

(2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 267: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Gear Oils Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 268: Asia-Pacific Biolubricant Gear Oils Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 269: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Gear Oils Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 270: Asia-Pacific Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 271: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Two-Stroke Engine Oils Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 272: Asia-Pacific Biolubricant Two-Stroke Engine Oils Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 273: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Two-Stroke Engine Oils Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 274: Asia-Pacific Biolubricant Greases Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 275: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Greases Volume Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 276: Asia-Pacific Biolubricant Greases Market Overview (2010-2020) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 277: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricant Greases Value Market Share (%) by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 278: Asia-Pacific Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 279: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 280: Asia-Pacific Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 281: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 282: Asia-Pacific Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Chart 283: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Volume Market Share (%) in Automotive & Transportation Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 284: Asia-Pacific Biolubricants Overview (2010-2020) in Automotive & Transportation Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 285: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Value Market Share (%) in Automotive & Transportation Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 286: Asia-Pacific Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 287: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Volume Market Share (%) in Commercial/Industrial Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 288: Asia-Pacific Biolubricants Overview (2010-2020) in Commercial/Industrial Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 289: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Value Market Share (%) in Commercial/Industrial Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 290: Asia-Pacific Biolubricants Overview (2010-2020) in Other Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in '000 Pounds

Chart 291: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Volume Market Share (%) in Other Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

Chart 292: Asia-Pacific Biolubricants Overview (2010-2020) in Other Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific in USD Million

Chart 293: Glance at 2010, 2015 and 2020 Asia-Pacific Biolubricants Value Market Share (%) in Other Applications by Region – China, Japan, India, South Korea and Rest of Asia-Pacific

### China

Chart 294: Chinese Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 295: Chinese Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 296: Glance at 2010, 2015 and 2020 Chinese Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 297: Chinese Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 298: Glance at 2010, 2015 and 2020 Chinese Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 299: Chinese Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 300: Glance at 2010, 2015 and 2020 Chinese Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 301: Chinese Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 302: Glance at 2010, 2015 and 2020 Chinese Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### Japan

Chart 303: Japanese Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 304: Japanese Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 305: Glance at 2010, 2015 and 2020 Japanese Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 306: Japanese Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 307: Glance at 2010, 2015 and 2020 Japanese Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 308: Japanese Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 309: Glance at 2010, 2015 and 2020 Japanese Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 310: Japanese Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 311: Glance at 2010, 2015 and 2020 Japanese Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### India

Chart 312: Indian Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

## BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW

Chart 313: Indian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 314: Glance at 2010, 2015 and 2020 Indian Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 315: Indian Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 316: Glance at 2010, 2015 and 2020 Indian Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 317: Indian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 318: Glance at 2010, 2015 and 2020 Indian Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 319: Indian Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 320: Glance at 2010, 2015 and 2020 Indian Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### South Korea

Chart 321: South Korean Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 322: South Korean Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 323: Glance at 2010, 2015 and 2020 South Korean Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 324: South Korean Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 325: Glance at 2010, 2015 and 2020 South Korean Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 326: South Korean Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 327: Glance at 2010, 2015 and 2020 South Korean Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 328: South Korean Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 329: Glance at 2010, 2015 and 2020 South Korean Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### Rest of Asia-Pacific

Chart 330: Rest of Asia-Pacific Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 331: Rest of Asia-Pacific Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 332: Glance at 2010, 2015 and 2020 Rest of Asia-Pacific Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 333: Rest of Asia-Pacific Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million

Chart 334: Glance at 2010, 2015 and 2020 Rest of Asia-Pacific Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases

Chart 335: Rest of Asia-Pacific Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds

Chart 336: Glance at 2010, 2015 and 2020 Rest of Asia-Pacific Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

Chart 337: Rest of Asia-Pacific Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million

Chart 338: Glance at 2010, 2015 and 2020 Rest of Asia-Pacific Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications

### 4. REST OF WORLD

Chart 339: Rest of World Biolubricants Market Overview (2010-2020) by Volume in Thousand Pounds and Value in USD Million

Chart 340: Rest of World Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in '000 Pounds

Chart 341: Glance at 2010, 2015 and 2020 Rest of World Biolubricants Volume Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release

## **BIOLUBRICANTS – A GLOBAL MARKET OVERVIEW**

Agents, Gear Oils, Two-Stroke Engine Oils and Greases  
Chart 342: Rest of World Biolubricants Market Overview (2010-2020) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases in USD Million  
Chart 343: Glance at 2010, 2015 and 2020 Rest of World Biolubricants Value Market Share (%) by Category – Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases  
Chart 344: Rest of World Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in '000 Pounds  
Chart 345: Glance at 2010, 2015 and 2020 Rest of World

Biolubricants Volume Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications  
Chart 346: Rest of World Biolubricants Market Overview (2010-2020) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications in USD Million  
Chart 347: Glance at 2010, 2015 and 2020 Rest of World Biolubricants Value Market Share (%) by Application – Automotive & Transportation, Commercial/Industrial and Other Applications  
Table 1: The Key Growth Drivers and Restraints of Biolubricants

For more information please visit: [Biolubricants – A Global Market Overview](#)