+44 20 8123 2220
info@marketpublishers.com

Global Lactic Acid & Poly Lactic Acid (PLA) Market by Applications and Potential Opportunities (2011-2016)

https://marketpublishers.com/r/GEF52688014EN.html
Date: October 2011
Pages: 289
Price: US$ 5,650.00 (Single User License)
ID: GEF52688014EN

Abstracts

Report Description:

Today, public concern regarding the environment, increasing desire of manufacturing companies to develop more sustainable products, limited fossil fuel resources, and climate change are important reasons for governments and companies to find substitutes to crude oil-based products. Bio-based plastics present huge potential to reduce the dependence on fossil fuels and the related environmental impacts. In recent years, PLA has emerged as one of the most popular bio-degradable plastics available in the market. PLA finds major applications in the food packaging industry, especially in frozen foods, ready-to-eat meals, and cutlery. Increasing awareness regarding the environmental consequences by the use of conventional plastic packaging is expected to drive the demand for PLA in the near future. This surge in PLA demand is expected to reflect in demand for lactic acid as PLA is the largest application market for it. The technical developments in emerging bio-based plastics have substantially improved the properties of novel bio-based plastics such as heat resistance of PLA, enabling a much wider range of applications.

This study estimates the global capacity of PLA and lactic acid by the end of 2016. Europe is the most dominant market for PLA while Asia-Pacific, owing to significant domestic demand, is expected to be the fastest growing market in the next five years. Cost competitiveness against alternatives is a key challenge for industry participants along with the growing mismatch in the supply demand scenario. The global PLA market is currently witnessing supply restraints as there are only a few major suppliers on a global platform. However, market players are increasingly focusing on increasing production capacities; especially in the Asia-Pacific region owing to the cheap availability and wide abundance of starting raw materials such as sugarcane, sugar

+44 20 8123 2220
info@marketpublishers.com

beet, and tapioca in the region for lactic acid production. Growing demand for PLA is expected to drive the lactic acid market in the near future. Lack of supply capabilities on the part of market players is perceived to be a key issue for the lactic acid market in the near future.

The global lactic acid market is dominated by North America, accounting for 35.8% of the overall market in 2010. Europe and Asia-Pacific are the second and third largest markets for lactic acid; accounting for 29.9% and 29.2% of the overall market respectively in 2010. Industrial applications are the largest for lactic acid, accounting for 42.4% of the overall market in 2010. In the last few years, industrial applications have surpassed food and beverages as a leading application for the consumption of lactic acid. This has primarily been a result of strong growth in the PLA and solvents markets for which lactic acid is the primary raw material.

The report provides a comprehensive review of major market drivers, challenges, opportunities, and key issues in the market. The market is further segmented and forecasted for major geographic regions; North America, Europe, Asia-Pacific, and Rest of the World that include key growth regions such as Brazil. The key countries covered include U.S., U.K., China, and Japan. The report estimates the market size for lactic acid and PLA; both in terms of volumes and revenue. The market has been further segmented on the basis of applications. The various applications for PLA such as packaging, textiles, electronics, and medical have been discussed in detail in the report. Market share for major market players has been calculated on the basis of announced production capacities and is described in detail for both lactic acid and PLA. The report also consists of profiles of leading players of this industry with their recent developments and the other strategic industry activities. The key players included in the report are NatureWorks LLC (U.S.), Purac (The Netherlands), Pyramid Bioplastics Guben GmBH (Germany), Archer Daniels Midland Company (U.S.), and Henan Jindan (China).

Scope of the report

Poly Lactic Acid (PLA) Market and Lactic Acid Market research report categorizes the global market for PLA and lactic acid on the basis of applications, raw materials, and geography; forecasting volumes, revenues, and analyzing trends in each of the following submarkets:

On the basis of applications: The PLA market is segmented on the basis of applications such as packaging, textiles, electronics, medical, agriculture, transportation, and the

+44 20 8123 2220
info@marketpublishers.com

other applications. The packaging application for PLA is further segmented on the basis of packaging types such as rigid packaging, loose fill packaging, compost bags, and others. The lactic market is segmented on the basis of applications such as industrial applications, food and beverages, pharmaceuticals, personal care products, and others.

On the basis of raw materials: Corn (maize), sugarcane and sugar beet, tapioca, and others.

On the basis of geography: North America, Europe, Asia-Pacific, Latin America, ROW, and key countries in every region

+44 20 8123 2220
info@marketpublishers.com

Contents

1 INTRODUCTION

1.1 KEY TAKE-AWAYS
1.2 REPORT DESCRIPTION
1.3 STAKEHOLDERS
1.4 RESEARCH METHODOLOGY
  1.4.1 MARKET SIZE
  1.4.2 KEY DATA POINTS FROM SECONDARY SOURCES
  1.4.3 KEY DATA POINTS FROM PRIMARY SOURCES
  1.4.4 ASSUMPTIONS MADE FOR THIS REPORT
  1.4.5 LIST OF COMPANIES COVERED DURING PRIMARIES
1.5 KEY QUESTIONS ANSWERED

2 SUMMARY

3 MARKET OVERVIEW

3.1 INTRODUCTION
3.2 VALUE CHAIN ANALYSIS
3.3 BURNING ISSUES
  3.3.1 ECONOMIES OF SCALE REQUIRED TO MEET DEMAND
3.4 WINNING IMPERATIVES
  3.4.1 FOCUS ON AGREEMENTS & COLLABORATIONS
3.5 PLA (POLYLACTIC ACID)
  3.5.1 DRIVERS
    3.5.1.1 Increasing awareness towards sustainability and greener products
    3.5.1.2 Regulatory push towards bioplastics
    3.5.1.3 Rising oil prices
    3.5.1.4 Shifting consumer preferences towards eco-friendly packaging
  3.5.2 RESTRAINTS
    3.5.2.1 Price competitiveness against conventional polymers
    3.5.2.2 Supply limitations hampering market growth
    3.5.2.3 Limited performance capabilities compared to conventional plastics
  3.5.3 OPPORTUNITIES
    3.5.3.1 Production of PLA from lignocellulose feedstocks
    3.5.3.2 Co-polymers with synthetic plastics
    3.5.3.3 Films & fibers

+44 20 8123 2220
info@marketpublishers.com

3.5.3.4 Increasing scope of application in end-user segments
3.6 LACTIC ACID
3.6.1 DRIVER
3.6.1.1 Growth in the end-user applications
3.6.2 RESTRAINT
3.6.2.1 Raw material price volatility
3.6.3 OPPORTUNITY
3.6.3.1 Growing PLA market
3.7 RAW MATERIAL ANALYSIS
3.7.1 CORN (MAIZE)
3.7.2 SUGARCANE
3.7.3 TAPIOCA (CASSAVA)
3.7.4 WHEAT
3.8 PORTER'S FIVE FORCES ANALYSIS
3.8.1 DEGREE OF COMPETITION
3.8.2 BARGAINING POWER OF BUYER
3.8.3 THREAT OF NEW ENTRANTS
3.8.4 THREAT OF SUBSTITUTES
3.8.5 BARGAINING POWER OF SUPPLIERS
3.9 COST ANALYSIS
3.10 MARKET SHARE ANALYSIS
3.11 PATENT ANALYSIS

4 LACTIC ACID MARKET

4.1 INTRODUCTION
4.2 GLOBAL LACTIC ACID MARKET
4.3 GLOBAL LACTIC ACID MARKET, BY APPLICATIONS
4.3.1 INDUSTRIAL APPLICATIONS
4.3.2 FOOD & BEVERAGES
4.3.3 PERSONAL CARE PRODUCTS
4.3.4 PHARMACEUTICALS
4.3.5 OTHERS
4.4 LACTIC ACID MARKET, BY GEOGRAPHY
4.4.1 NORTH AMERICA
4.4.1.1 U.S.
4.4.2 EUROPE
4.4.2.1 Germany
4.4.2.2 U.K.

+44 20 8123 2220
info@marketpublishers.com

4.4.2.3 France
4.4.3 ASIA-PACIFIC
4.4.3.1 China
4.4.3.2 Japan
4.4.4 ROW
4.4.4.1 Brazil

5 PLA MARKET

5.1 INTRODUCTION
5.2 GLOBAL PLA MARKET
5.3 GLOBAL PLA MARKET, BY APPLICATIONS
5.3.1 PACKAGING
5.3.1.1 Rigid packaging
5.3.1.2 Compost bags
5.3.1.3 Loose fill packaging
5.3.1.4 Others
5.3.2 TEXTILE
5.3.3 AGRICULTURE
5.3.4 TRANSPORTATION
5.3.5 ELECTRONICS
5.3.6 OTHERS
5.4 GLOBAL PLA MARKET, BY RAW MATERIALS
5.5 PLA MARKET, BY GEOGRAPHY
5.5.1 NORTH AMERICA
5.5.1.1 U.S.
5.5.2 EUROPE
5.5.2.1 Germany
5.5.2.2 U.K.
5.5.2.3 France
5.5.3 ASIA-PACIFIC
5.5.3.1 China
5.5.3.2 Japan
5.5.4 ROW
5.5.4.1 Brazil

6 COMPETITIVE LANDSCAPE

7 COMPANY PROFILES

+44 20 8123 2220
info@marketpublishers.com

7.1 BASF
7.1.1 OVERVIEW
7.1.2 FINANCIALS
7.1.3 PRODUCTS & SERVICES
7.1.4 STRATEGY
7.1.5 DEVELOPMENTS
7.2 DANIMER SCIENTIFIC LLC
7.2.1 OVERVIEW
7.2.2 FINANCIALS
7.2.3 PRODUCTS & SERVICES
7.2.4 STRATEGY
7.2.5 DEVELOPMENTS
7.3 FUTERRO
7.3.1 OVERVIEW
7.3.2 FINANCIALS
7.3.3 PRODUCTS & SERVICES
7.3.4 STRATEGY
7.3.5 DEVELOPMENTS
7.4 GALACTIC
7.4.1 OVERVIEW
7.4.2 FINANCIALS
7.4.3 PRODUCTS & SERVICES
7.4.4 STRATEGY
7.4.5 DEVELOPMENTS
7.5 HENAN JINDAN LACTIC ACID COMPANY LIMITED
7.5.1 OVERVIEW
7.5.2 FINANCIALS
7.5.3 PRODUCTS & SERVICES
7.5.4 STRATEGY
7.6 MUSASHINO CHEMICAL (CHINA) CO. LTD.
7.6.1 OVERVIEW
7.6.2 FINANCIALS
7.6.3 PRODUCTS & SERVICES
7.6.4 STRATEGY
7.6.5 DEVELOPMENTS
7.7 NATUREWORKS LLC
7.7.1 OVERVIEW
7.7.2 FINANCIALS

+44 20 8123 2220
info@marketpublishers.com

7.7.3 PRODUCTS & SERVICES
7.7.4 STRATEGY
7.7.5 DEVELOPMENTS
7.8 NINGXIA HYPOW BIOTECHNOLOGY CO. LTD.
7.8.1 OVERVIEW
7.8.2 FINANCIALS
7.8.3 PRODUCTS & SERVICES
7.8.4 STRATEGY
7.9 PHUSIS
7.9.1 OVERVIEW
7.9.2 FINANCIALS
7.9.3 PRODUCTS & SERVICES
7.9.4 STRATEGY
7.10 PURAC
7.10.1 OVERVIEW
7.10.2 FINANCIALS
7.10.3 PRODUCTS & SERVICES
7.10.4 STRATEGY
7.10.5 DEVELOPMENTS
7.11 PYRAMID BIOPLASTICS GUBEN GMBH
7.11.1 OVERVIEW
7.11.2 FINANCIALS
7.11.3 PRODUCTS & SERVICES
7.11.4 STRATEGY
7.11.5 DEVELOPMENTS
7.12 SYNBRA TECHNOLOGY B.V.
7.12.1 OVERVIEW
7.12.2 FINANCIALS
7.12.3 PRODUCTS & SERVICES
7.12.4 STRATEGY
7.12.5 DEVELOPMENTS
7.13 TEIJIN LTD
7.13.1 OVERVIEW
7.13.2 FINANCIALS
7.13.3 PRODUCTS & SERVICES
7.13.4 STRATEGY
7.13.5 DEVELOPMENTS
7.14 TONG-JIE-LIANG BIOMATERIALS COMPANY LIMITED
7.14.1 OVERVIEW

+44 20 8123 2220
info@marketpublishers.com

7.14.2 FINANCIALS
7.14.3 PRODUCTS & SERVICES
7.14.4 STRATEGY
7.14.5 DEVELOPMENTS
7.15 WEI MON INDUSTRY CO. LTD.
7.15.1 OVERVIEW
7.15.2 FINANCIALS
7.15.3 PRODUCTS & SERVICES
7.15.4 STRATEGY
7.15.5 DEVELOPMENTS
7.16 WILKINSON INDUSTRIES INC
7.16.1 OVERVIEW
7.16.2 FINANCIALS
7.16.3 PRODUCTS & SERVICES
7.16.4 STRATEGY
7.16.5 DEVELOPMENTS
7.17 ZHEJIANG HISUN BIOMATERIALS CO. LTD.
7.17.1 OVERVIEW
7.17.2 FINANCIALS
7.17.3 PRODUCTS & SERVICES
7.17.4 STRATEGY
7.17.5 DEVELOPMENTS

APPENDIX

U.S. PATENTS
EUROPE PATENTS
JAPAN PATENTS

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

TABLE 1 GLOBAL LACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 2 GLOBAL POLYLACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 3 IMPACT OF GLOBAL POLYLACTIC ACID MARKET DRIVERS, 2010 – 2016
TABLE 4 CRUDE OIL PRICES,BY CRUDE TYPES, 2009 - 2016 ($/BARREL)
TABLE 5 IMPACT OF GLOBAL POLYLACTIC ACID MARKET RESTRAINTS, 2010 – 2016
TABLE 6 IMPACT OF GLOBAL POLYLACTIC ACID MARKET OPPORTUNITIES, 2010 – 2016
TABLE 7 CORN: PRODUCTION (MILLION TONS) & PRICE TRENDS ($/TON), 2008 – 2010
TABLE 8 SUGARCANE: PRODUCTION (MILLION TONS) & PRICE TRENDS ($/TON), 2008 – 2010
TABLE 9 TAPIOCA (CASSAVA): PRODUCTION (MILLION TONS) & PRICE TRENDS ($/TON), 2008 – 2010
TABLE 10 WHEAT: PRODUCTION (MILLION TONS) & PRICE TRENDS ($/TON), 2008 – 2010
TABLE 11 MAJOR PLA PRODUCTION CAPACITY, BY COMPANY (TONS/YEAR)
TABLE 12 GLOBAL LACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 13 LACTIC ACID MARKET FOR INDUSTRIAL APPLICATIONS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 14 LACTIC ACID MARKET FOR FOOD & BEVERAGE APPLICATIONS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 15 LACTIC ACID MARKET FOR PERSONAL CARE PRODUCT APPLICATIONS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 16 LACTIC ACID MARKET FOR PHARMACEUTICAL APPLICATIONS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 17 LACTIC ACID MARKET FOR OTHER APPLICATIONS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 18 NORTH AMERICA: LACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 19 U.S: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)

+44 20 8123 2220
info@marketpublishers.com

TABLE 20 U.S: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 21 EUROPE: LACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 22 GERMANY: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 23 GERMANY: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 24 U.K: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 25 U.K: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 26 FRANCE: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 27 FRANCE: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 28 ASIA-PACIFIC: LACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 29 CHINA: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 30 CHINA: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 31 JAPAN: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 32 JAPAN: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 33 ROW: LACTIC ACID MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 34 BRAZIL: LACTIC ACID MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 35 BRAZIL: LACTIC ACID MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 36 GLOBAL PLA MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 37 GLOBAL PLA MARKET FOR PACKAGING, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 38 PLA MARKET FOR RIGID PACKAGING, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 39 PLA MARKET FOR COMPOST BAGS PACKAGING, BY VOLUME (KILO

+44 20 8123 2220
info@marketpublishers.com

TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 40 PLA MARKET FOR LOOSE FILL PACKAGING, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 41 PLA MARKET FOR OTHER PACKAGING, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 42 GLOBAL PLA MARKET FOR TEXTILE, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 43 GLOBAL PLA MARKET FOR AGRICULTURE, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 44 GLOBAL PLA MARKET FOR TRANSPORTATION, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 45 GLOBAL PLA MARKET FOR ELECTRONICS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 46 GLOBAL PLA MARKET FOR OTHER APPLICATIONS, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 47 GLOBAL PLA MARKET VOLUME BY RAW MATERIAL TYPES, 2009 – 2016 (KILO TONS)
TABLE 48 GLOBAL PLA MARKET REVENUE, BY RAW MATERIAL TYPES, 2009 – 2016 ($MILLION)
TABLE 49 NORTH AMERICA: PLA MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 50 U.S: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 51 U.S: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 52 U.S: PLA PACKAGING MARKET VOLUME, BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 53 U.S: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)
TABLE 54 EUROPE: PLA MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 55 GERMANY: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 56 GERMANY: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 57 GERMANY: PLA PACKAGING MARKET VOLUME,BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 58 GERMANY: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)

+44 20 8123 2220
info@marketpublishers.com

TABLE 59 U.K: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 60 U.K: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 61 U.K: PLA PACKAGING MARKET VOLUME, BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 62 U.K: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)
TABLE 63 FRANCE: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 64 FRANCE: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 65 FRANCE: PLA PACKAGING MARKET VOLUME, BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 66 FRANCE: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)
TABLE 67 ASIA-PACIFIC: PLA MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 68 CHINA: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 69 CHINA: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 70 CHINA: PLA PACKAGING MARKET VOLUME, BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 71 CHINA: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)
TABLE 72 JAPAN: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 73 JAPAN: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 ($MILLION)
TABLE 74 JAPAN: PLA PACKAGING MARKET VOLUME, BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 75 JAPAN: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)
TABLE 76 ROW: PLA MARKET, BY VOLUME (KILO TONS) & REVENUE ($MILLION), 2009 – 2016
TABLE 77 BRAZIL: PLA MARKET VOLUME, BY APPLICATIONS, 2009 – 2016 (KILO TONS)
TABLE 78 BRAZIL: PLA MARKET REVENUE, BY APPLICATIONS, 2009 – 2016

+44 20 8123 2220
info@marketpublishers.com

($MILLION)
TABLE 79 BRAZIL: PLA PACKAGING MARKET VOLUME, BY PACKAGING TYPES, 2009 – 2016 (KILO TONS)
TABLE 80 BRAZIL: PLA PACKAGING MARKET REVENUE, BY PACKAGING TYPES, 2009 – 2016 ($MILLION)
TABLE 81 NEW PRODUCTS LAUNCH, FEBRUARY 2009 – AUGUST 2011
TABLE 82 GEOGRAPHIC EXPANSIONS, APRIL 2009 – SEPTEMBER 2011
TABLE 83 MERGERS & ACQUISITIONS, JULY 2009 – JULY 2010
TABLE 84 AGREEMENTS & COLLABORATIONS, FEBRUARY 2009 – MAY 2011

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

FIGURE 1 PLA GROWTH TRENDS, BY GEOGRAPHY, 2009 – 2016 ($MILLION)
FIGURE 2 VALUE CHAIN ANALYSIS FOR PLA
FIGURE 3 PORTER'S FIVE FORCES ANALYSIS
FIGURE 4 GLOBAL PLA MARKET, BY COMPANY MARKET SHARE, 2010 (BASED ON PRODUCTION CAPACITY)
FIGURE 5 GLOBAL LACTIC ACID MARKET, BY COMPANY MARKET SHARE, 2010 (BASED ON PRODUCTION CAPACITY)
FIGURE 6 PATENT ANALYSIS, BY GEOGRAPHY, JANUARY 2008 - AUGUST 2011
FIGURE 7 PATENT TRENDS, BY GEOGRAPHY, JANUARY 2008 – AUGUST 2011
FIGURE 8 PATENT ANALYSIS, BY COMPANY, JANUARY 2008 – AUGUST 2011
FIGURE 9 LACTIC ACID & PLA PATENT ANALYSIS, BY GEOGRAPHY, JANUARY 2008 – AUGUST 2011
FIGURE 10 LACTIC ACID MARKET SHARE, BY APPLICATIONS, 2010
FIGURE 11 LACTIC ACID MARKET SHARE, BY GEOGRAPHY, 2010
FIGURE 12 EUROPE: LACTIC ACID CONSUMPTION, BY COUNTRY, 2010
FIGURE 1 PLA APPLICATIONS
FIGURE 2 PLA MARKET SHARE, BY APPLICATIONS, 2010
FIGURE 3 PLA MARKET FOR PACKAGING, BY TYPES, 2010
FIGURE 4 PLA MARKET SHARE, BY RAW MATERIALS, 2010
FIGURE 5 PLA MARKET SHARE, BY GEOGRAPHY, 2010
FIGURE 6 MAJOR GROWTH STRATEGIES IN THE GLOBAL PLA MARKET, JANUARY 2009 – SEPTEMBER 2011
FIGURE 7 GLOBAL TRENDS IN GROWTH STRATEGIES, JANUARY 2009 – SEPTEMBER 2011
FIGURE 8 GROWTH STRATEGIES, BY GEOGRAPHY, JANUARY 2009 – SEPTEMBER 2011
FIGURE 9 GROWTH STRATEGIES, BY COMPANY, JANUARY 2009 – SEPTEMBER 2011

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Global Lactic Acid & Poly Lactic Acid (PLA) Market by Applications and Potential Opportunities (2011-2016)

Product link: https://marketpublishers.com/r/GEF52688014EN.html

Price: US$ 5,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GEF52688014EN.html