

# **Lactic Acid And Poly Lactic Acid (PLA) Market Analysis By Application (Packaging, Agriculture, Transport, Electronics, Textiles) And Segment Forecasts To 2020**

<https://marketpublishers.com/r/L341A4C9BB7EN.html>

Date: May 2014

Pages: 94

Price: US\$ 4,450.00 (Single User License)

ID: L341A4C9BB7EN

## **Abstracts**

The global poly lactic acid (PLA) market is expected to reach USD 2,169.6 million by 2020. The global lactic acid market is expected to reach USD 4,312.2 million by 2020, fueled by growing PLA demand. Increasing bioplastics demand coupled with growing adoption of PLA for packaging products is expected to drive the market over the next six years. Favorable regulatory scenario for environmentally friendly products is also expected to give impetus to the global market over the forecast period.

Increasing crude oil prices are expected to drive PLA demand, since majority of plastics are manufactured using petroleum-based resources. PLA is compostable and environmentally friendly; therefore, it proves ideal for food packaging and other consumer products. Inferior performance of PLA products as compared to conventional plastics may pose a barrier to industry growth over the forecast period. Changing consumer preferences and increasing demand for personal care is expected to enhance lactic acid market penetration in skin care applications used for anti-acne, skin lightening and anti-aging products.

Further key findings from the study suggest:

Global lactic acid demand was 714.2 kilo tons in 2013, which is expected to reach 1,960.1 kilo tons by 2020, growing at a CAGR of 15.5% from 2014 to 2020. Industrial applications are expected to be the largest and fastest growing segment over the forecast period; they accounted for 44.8% of the overall market in 2013, with an estimated CAGR of 19.3% from 2014 to 2020.

Global PLA demand was estimated to be 360.8 kilo tons in 2013, which is expected to reach 1,205.3 kilo tons by 2020, growing at a CAGR of 18.8% from 2014 to 2020. Packaging accounted for 59.6% of the overall PLA market in 2013, and is expected to remain the dominant application segment over the forecast period. Rigid packaging was the largest contributor to overall PLA demand in packaging in 2013. Textiles are expected to be the fastest growing segment, at a CAGR of 17.5% in terms of revenue from 2014 to 2020.

North America is expected to remain the largest market for lactic acid through the forecast period, and was valued at USD 444 million in 2013. Asia Pacific is expected to grow at the fastest rate of 19.5% in terms of revenue from 2014 to 2020. This region is also expected to be the fastest growing market for PLA at an estimated CAGR of 17.9% from 2014 to 2020.

Industry participants include NatureWorks LLC, Purac, Galactic, Pyramid Bioplastics (a collaboration of Pyramid Technologies and German Bioplastics), BASF, Synbra, etc. Companies operating in the market target product innovation as well as strategic alliances for gaining market share.

For the purpose of this study, Grand View Research has segmented the global lactic acid and PLA market on the basis of application and region:

Lactic Acid Application Outlook (Volume, Kilo Tons and Revenue, USD Million; 2012 – 2020)

Industrial

Food & Beverage

Pharmaceuticals

Personal Care

Others

PLA Application Outlook (Volume, Kilo Tons and Revenue, USD Million; 2012 – 2020)

Packaging

Agriculture

Transport

Electronics

Textiles

Others

Lactic Acid and PLA Regional Outlook (Volume, Kilo Tons and Revenue, USD Million; 2012 – 2020)

North America

Europe

Asia Pacific

RoW

## Contents

### CHAPTER 1 EXECUTIVE SUMMARY

1.1 Lactic Acid and Poly Lactic Acid (PLA) - Industry Summary & Critical Success Factors (CSFs)

### CHAPTER 2 LACTIC ACID AND PLA INDUSTRY OUTLOOK

2.1 Market Segmentation

2.2 Market Size and Growth Prospects

2.3 Value Chain Analysis

2.4 PLA Market Dynamics

2.4.1 Key Driver Analysis

2.4.1.1 Increasing demand for bioplastics

2.4.1.2 Increasing price of crude oil

2.4.1.3 Growing consumer preference towards green packaging

2.4.2 Key Restraint Analysis

2.4.2.1 Price competitiveness

2.4.2.2 Inferior performance compared to conventional plastics

2.5 Lactic Acid Market Dynamics

2.5.1 Key Driver Analysis

2.5.1.1 Growing demand from application segment

2.5.2 Key Restraint Analysis

2.5.2.1 Volatile raw material prices

2.6 Key Opportunities Prioritized

2.7 Industry Analysis - Porter's

2.8 Key Company Analysis, 2013

2.9 PESTEL Analysis

### CHAPTER 3 LACTIC ACID AND PLA APPLICATION OUTLOOK

3.1 PLA market volume share by application, 2013 & 2020

3.1.1 Packaging

3.1.1.1 PLA demand in packaging by region, (Kilo Tons) (USD Million), 2012 - 2020

3.1.2 Agriculture

3.1.2.1 PLA demand in agriculture by region, (Kilo Tons) (USD Million), 2012 – 2020

3.1.3 Transport

3.1.3.1 PLA demand in transport by region, (Kilo Tons) (USD Million), 2012 - 2020

### 3.1.4 Electronics

3.1.4.1 PLA demand in electronics by region, (Kilo Tons) (USD Million), 2012 - 2020

### 3.1.5 Textiles

3.1.5.1 PLA demand in textiles by region, (Kilo Tons) (USD Million), 2012 - 2020

### 3.1.6 Others

3.1.6.1 PLA demand in other applications by region, (Kilo Tons) (USD Million), 2012 – 2020

## 3.2 Lactic acid market volume share by application, 2013 & 2020

### 3.2.1 Industrial

3.2.1.1 Demand in industrial applications by region, (Kilo Tons) (USD Million), 2012 - 2020

### 3.2.2 Food & Beverage

3.2.2.1 Demand in food & beverage by region, (Kilo Tons) (USD Million), 2012 – 2020

### 3.2.3 Personal Care

3.2.3.1 Demand in personal care by region, (Kilo Tons) (USD Million), 2012 - 2020

### 3.2.4 Pharmaceuticals

3.2.4.1 Demand in pharmaceuticals by region, (Kilo Tons) (USD Million), 2012 - 2020

### 3.2.5 Others

3.2.5.1 Demand in other applications by region, (Kilo Tons) (USD Million), 2012 - 2020

## CHAPTER 4 LACTIC ACID AND PLA REGIONAL OUTLOOK

### 4.1 North America

4.1.1 North America PLA market by application, (Kilo Tons) (USD Million), 2012 – 2020

4.1.2 North America lactic acid market by application, (Kilo Tons) (USD Million), 2012 - 2020

### 4.2 Europe

4.2.1 Europe PLA market by application, (Kilo Tons) (USD Million), 2012 – 2020

4.2.2 Europe lactic acid market by application, (Kilo Tons) (USD Million), 2012 - 2020

### 4.3 Asia Pacific

4.3.1 Asia Pacific PLA market by application, (Kilo Tons) (USD Million), 2012 – 2020

4.3.2 Asia Pacific lactic acid market by application, (Kilo Tons) (USD Million), 2012 - 2020

### 4.4 RoW

4.4.1 RoW PLA market by application, (Kilo Tons) (USD Million), 2012 – 2020

4.4.2 RoW lactic acid market by application, (Kilo Tons) (USD Million), 2012 - 2020

## CHAPTER 5 COMPETITIVE LANDSCAPE

## 5.1 BASF

- 5.1.1 Company Overview
- 5.1.2 Financial Performance
- 5.1.3 Product Benchmarking
- 5.1.4 Strategic Initiatives

## 5.2 Danimer Scientific LLC

- 5.2.1 Company Overview
- 5.2.2 Financial Performance
- 5.2.3 Product Benchmarking
- 5.2.4 Strategic Initiatives

## 5.3 Futerro

- 5.3.1 Company Overview
- 5.3.2 Financial Performance
- 5.3.3 Product Benchmarking
- 5.3.4 Strategic Initiatives

## 5.4 Galactic

- 5.4.1 Company Overview
- 5.4.2 Financial Performance
- 5.4.3 Product Benchmarking
- 5.4.4 Strategic Initiatives

## 5.5 Henan Jindan Lactic Acid Technology Co. Ltd

- 5.5.1 Company Overview
- 5.5.2 Financial Performance
- 5.5.3 Product Benchmarking
- 5.5.4 Strategic Initiatives

## 5.6 Musashino Chemical (China) Co. Ltd

- 5.6.1 Company Overview
- 5.6.2 Financial Performance
- 5.6.3 Product Benchmarking
- 5.6.4 Strategic Initiatives

## 5.7 NatureWorks LLC

- 5.7.1 Company Overview
- 5.7.2 Financial Performance
- 5.7.3 Product Benchmarking
- 5.7.4 Strategic Initiatives

## 5.8 Purac

- 5.8.1 Company Overview
- 5.8.2 Financial Performance

- 5.8.3 Product Benchmarking
- 5.8.4 Strategic Initiatives
- 5.9 Synbra Technology BV
  - 5.9.1 Company Overview
  - 5.9.2 Financial Performance
  - 5.9.3 Product Benchmarking
  - 5.9.4 Strategic Initiatives

## **CHAPTER 6 METHODOLOGY AND SCOPE**

- 6.1 Research Methodology
- 6.2 Research Scope & Assumption
- 6.3 List of Data Sources

## List Of Tables

### LIST OF TABLES

Table 1 Lactic Acid and Poly Lactic Acid (PLA) – Industry Summary & Critical Success Factors (CSFs)

Table 2 Global lactic acid market (Volume & Revenue), 2012 - 2020

Table 3 Global lactic acid market by region, (Kilo Tons), 2012 - 2020

Table 4 Global lactic acid market by region, (USD Million), 2012 – 2020

Table 5 Global lactic acid market by application, (Kilo Tons), 2012 - 2020

Table 6 Global lactic acid market by application (USD Million), 2012 – 2020

Table 7 Global PLA market (Volume & Revenue), 2012 – 2020

Table 8 Global PLA market by region (Kilo Tons), 2012 – 2020

Table 9 Global PLA market by region (USD Million), 2012 – 2020

Table 10 Global PLA market by application (Kilo Tons), 2012 – 2020

Table 11 Global PLA market by application (USD Million), 2012 – 2020

Table 12 Bioplastics Classification

Table 13 PLA - Competitive landscape

Table 14 Global PLA demand in packaging (Volume & Revenue), 2012 - 2020

Table 15 Global PLA demand in packaging by region (Kilo Tons), 2012 - 2020

Table 16 Global PLA demand in packaging by region, (USD Million), 2012 - 2020

Table 17 Global PLA demand in agriculture (Volume & Revenue), 2012 - 2020

Table 18 Global PLA demand in agriculture by region (Kilo Tons), 2012 - 2020

Table 19 Global PLA demand in agriculture by region (USD Million), 2012 – 2020

Table 20 Global PLA demand in transport (Volume & Revenue), 2012 - 2020

Table 21 Global PLA demand in transport by region (Kilo Tons), 2012 - 2020

Table 22 Global PLA demand in transport by region (USD Million), 2012 – 2020

Table 23 Global PLA demand in electronics (Volume & Revenue), 2012 - 2020

Table 24 Global PLA demand in electronics by region (Kilo Tons), 2012 - 2020

Table 25 Global PLA demand in electronics by region (USD Million), 2012 – 2020

Table 26 Global PLA demand in textiles (Volume & Revenue), 2012 - 2020

Table 27 Global PLA demand in textiles by region (Kilo Tons), 2012 - 2020

Table 28 Global PLA demand in textiles by region (USD Million), 2012 – 2020

Table 29 Global PLA demand in other applications (Volume & Revenue), 2012 - 2020

Table 30 Global PLA demand in other applications by region (Kilo Tons), 2012 - 2020

Table 31 Global PLA demand in other applications by region (USD Million), 2012 – 2020

Table 32 Global lactic acid demand in industrial applications (Volume & Revenue), 2012 - 2020

Table 33 Global lactic acid demand in industrial applications by region (Kilo Tons), 2012



- 2020

Table 34 Global lactic acid demand in industrial applications by region, (USD Million), 2012 - 2020

Table 35 Global lactic acid demand in food & beverage (Volume & Revenue), 2012 - 2020

Table 36 Global lactic acid demand in food & beverage by region (Kilo Tons), 2012 - 2020

Table 37 Global lactic acid demand in food & beverage by region (USD Million), 2012 – 2020

Table 38 Global lactic acid demand in pharmaceuticals (Volume & Revenue), 2012 - 2020

Table 39 Global lactic acid demand in pharmaceuticals by region (Kilo Tons), 2012 - 2020

Table 40 Global lactic acid demand in pharmaceuticals by region (USD Million), 2012 – 2020

Table 41 Global lactic acid demand in personal care (Volume & Revenue), 2012 - 2020

Table 42 Global lactic acid demand in personal care by region (Kilo Tons), 2012 - 2020

Table 43 Global lactic acid demand in personal care by region (USD Million), 2012 – 2020

Table 44 Global lactic acid demand in other applications (Volume & Revenue), 2012 - 2020

Table 45 Global lactic acid demand in other applications by region (Kilo Tons), 2012 - 2020

Table 46 Global lactic acid demand in other applications by region (USD Million), 2012 – 2020

Table 47 North America PLA market by application (Kilo Tons), 2012 – 2020

Table 48 North America PLA market by application (USD Million), 2012 – 2020

Table 49 Europe PLA market by application (Kilo Tons), 2012 – 2020

Table 50 Europe PLA market by application (USD Million), 2012 – 2020

Table 51 Asia Pacific PLA market by application (Kilo Tons), 2012 – 2020

Table 52 Asia Pacific PLA market by application (USD Million), 2012 – 2020

Table 53 RoW PLA market by application (Kilo Tons), 2012 – 2020

Table 54 RoW PLA market by application (USD Million), 2012 – 2020

Table 55 North America lactic acid market by application (Kilo Tons), 2012 – 2020

Table 56 North America lactic acid market by application (USD Million), 2012 – 2020

Table 57 Europe lactic acid market by application (Kilo Tons), 2012 – 2020

Table 58 Europe lactic acid market by application (USD Million), 2012 – 2020

Table 59 Asia Pacific lactic acid market by application (Kilo Tons), 2012 – 2020

Table 60 Asia Pacific lactic acid market by application (USD Million), 2012 – 2020

Table 61 RoW lactic acid market by application (Kilo Tons), 2012 – 2020

Table 62 RoW lactic acid market by application (USD Million), 2012 – 2020

## List Of Figures

### LIST OF FIGURES

- Figure1 Lactic Acid and Poly Lactic Acid (PLA) Market Segmentation
- Figure2 Global Lactic Acid Market (Volume & Revenue), 2012 - 2020
- Figure3 Global PLA Market (Volume & Revenue), 2012 - 2020
- Figure4 Value Chain Analysis
- Figure5 PURAC's partnership model
- Figure6 PLA Market Dynamics
- Figure7 WTI crude oil prices, 2008-2012 (USD per barrel)
- Figure8 Lactic Acid Market Dynamics
- Figure9 Lactic Acid - Key Opportunities Prioritized
- Figure10 PLA - Key Opportunities Prioritized
- Figure11 PLA – Porter's Analysis
- Figure12 PLA - Company Market Share Analysis, 2013
- Figure13 PESTEL Analysis
- Figure14 PLA market volume share by application, 2013 & 2020
- Figure15 PLA plastics packaging market, by product, 2013
- Figure16 Global PLA demand in packaging (Volume & Revenue), 2012 - 2020
- Figure17 Global PLA demand in agriculture (Volume & Revenue), 2012 - 2020
- Figure18 Global PLA demand in transport (Volume & Revenue), 2012 - 2020
- Figure19 Global PLA demand in electronics (Volume & Revenue), 2012 - 2020
- Figure20 Global PLA demand in textiles (Volume & Revenue), 2012 - 2020
- Figure21 Global PLA demand in other applications (Volume & Revenue), 2012 - 2020
- Figure22 Lactic acid market volume share by application, 2013 & 2020
- Figure23 Global lactic acid demand in industrial applications (Volume & Revenue), 2012 - 2020
- Figure24 Global lactic acid demand in food & beverage (Volume & Revenue), 2012 - 2020
- Figure25 Global lactic acid demand in pharmaceuticals (Volume & Revenue), 2012 - 2020
- Figure26 Global lactic acid demand in personal care (Volume & Revenue), 2012 - 2020
- Figure27 Global lactic acid demand in other applications (Volume & Revenue), 2012 - 2020
- Figure28 PLA market volume share by region, 2013 & 2020
- Figure29 North America PLA market by application (Kilo Tons), 2012 – 2020
- Figure30 North America PLA market by application (USD Million), 2012 – 2020
- Figure31 Europe PLA market by application (Kilo Tons), 2012 – 2020

- Figure32 Europe PLA market by application (USD Million), 2012 – 2020
- Figure33 Asia Pacific PLA market by application (Kilo Tons), 2012 – 2020
- Figure34 Asia Pacific PLA market by application (USD Million), 2012 – 2020
- Figure35 RoW PLA market by application (Kilo Tons), 2012 – 2020
- Figure36 RoW PLA market by application (USD Million), 2012 – 2020
- Figure37 Lactic acid market volume share by region, 2013 & 2020
- Figure38 North America lactic acid market by application (Kilo Tons), 2012 – 2020
- Figure39 North America lactic acid market by application (USD Million), 2012 – 2020
- Figure40 Europe lactic acid market by application (Kilo Tons), 2012 – 2020
- Figure41 Europe lactic acid market by application (USD Million), 2012 – 2020
- Figure42 Asia Pacific lactic acid market by application (Kilo Tons), 2012 – 2020
- Figure43 Asia Pacific lactic acid market by application (USD Million), 2012 – 2020
- Figure44 RoW lactic acid market by application (Kilo Tons), 2012 – 2020
- Figure45 RoW lactic acid market by application (USD Million), 2012 – 2020

## I would like to order

Product name: Lactic Acid And Poly Lactic Acid (PLA) Market Analysis By Application (Packaging, Agriculture, Transport, Electronics, Textiles) And Segment Forecasts To 2020

Product link: <https://marketpublishers.com/r/L341A4C9BB7EN.html>

Price: US\$ 4,450.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L341A4C9BB7EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

