

# Global CTBN Market by Manufacturers, Regions, Type and Application, Forecast to 2023

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## Abstracts

Carboxyl-terminated acrylonitrile-butadiene (CTBN) polymers are made by solution polymerisation and have a typical acrylonitrile content of 0-27%. They are used as epoxy resin flexibilisers.

Scope of the Report:

This report focuses on the CTBN in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

In the past few years, the global CTBN industry maintained a rapid pace of development. Global CTBN production increased from 490.5 tons in 2012 to 685.1 tons in 2016. The average growth rate of CTBN market had more than 7%. Global CTBN leader is Emerald Performance Materials. In each region, Emerald Performance Materials occupy an absolute market share.

Companies such as LANXESS and Zeon are leading NBR Rubber manufacturers. These companies have XNBR production capacity. The key factors limiting the development of this industry are price and technical barriers. Compared with the general toughening agent, the price of CTBN is undoubtedly expensive. CVC is the world's first company to develop and produce CTBN. In the world, few companies can compete with CVC at both price and product quality. Some companies can produce CTBN in small quantities, but the price is too high. Therefore, CVC's products have become the best choice.

CTBN typically requires chemical modification for effective incorporation into thermoset chemistries. Choice of terminal chemistry will depend on the application and end-use.

Carboxyl-Functional Polymers are carboxyl-terminated butadiene and butadiene-acrylonitrile copolymers (CTBN) that improve toughness, low-temperature properties, chemical and water resistance in epoxy, coating, vinyl-ester, SMC/BMC, acrylic, plaitisol, and other thermoset systems. The key applications of CTBN are adhesives & sealants, coating and electronic appliances. In 2016, adhesives & sealants, coating and electronic appliances accounted for 36.18%, 27.24% and 17.78% of the application share of CTBN.

At present, CTBN plays an important role in liquid NBR rubber. In the next few years, CTBN will maintain a steady growth rate. At the same time, new players may make this market will become intense. In the future, CTBN prices will be slightly lower. This is the end of CTBN report.

The worldwide market for CTBN is expected to grow at a CAGR of roughly 5.4% over the next five years, will reach 13 million US\$ in 2023, from 9 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

CTBN with 8-12% Acrylonitrile

CTBN with 12-18% Acrylonitrile

CTBN with 18-22% Acrylonitrile

CTBN with 22-27% Acrylonitrile

Others

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Adhesives & Sealants

Coating

Electronic Appliances

Aerospace

Composites

Others

Market Segment by Applications, can be divided into

There are 15 Chapters to deeply display the global CTBN market.

Chapter 1, to describe CTBN Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of CTBN, with sales, revenue, and price of CTBN, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of CTBN, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, CTBN market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe CTBN sales channel, distributors, traders, dealers,

Research Findings and Conclusion, appendix and data source

## Contents

### 1 MARKET OVERVIEW

- 1.1 CTBN Introduction
- 1.2 Market Analysis by Type
  - 1.2.1 Adhesives & Sealants
  - 1.2.2 Coating
  - 1.2.3 Electronic Appliances
  - 1.2.4 Aerospace
  - 1.2.5 Composites
  - 1.2.6 Others
- 1.3 Market Analysis by Applications
- 1.4 Market Analysis by Regions
  - 1.4.1 North America (United States, Canada and Mexico)
    - 1.4.1.1 United States Market States and Outlook (2013-2023)
    - 1.4.1.2 Canada Market States and Outlook (2013-2023)
    - 1.4.1.3 Mexico Market States and Outlook (2013-2023)
  - 1.4.2 Europe (Germany, France, UK, Russia and Italy)
    - 1.4.2.1 Germany Market States and Outlook (2013-2023)
    - 1.4.2.2 France Market States and Outlook (2013-2023)
    - 1.4.2.3 UK Market States and Outlook (2013-2023)
    - 1.4.2.4 Russia Market States and Outlook (2013-2023)
    - 1.4.2.5 Italy Market States and Outlook (2013-2023)
  - 1.4.3 Asia-Pacific (China, Japan, Korea, India and Southeast Asia)
    - 1.4.3.1 China Market States and Outlook (2013-2023)
    - 1.4.3.2 Japan Market States and Outlook (2013-2023)
    - 1.4.3.3 Korea Market States and Outlook (2013-2023)
    - 1.4.3.4 India Market States and Outlook (2013-2023)
    - 1.4.3.5 Southeast Asia Market States and Outlook (2013-2023)
  - 1.4.4 South America, Middle East and Africa
    - 1.4.4.1 Brazil Market States and Outlook (2013-2023)
    - 1.4.4.2 Egypt Market States and Outlook (2013-2023)
    - 1.4.4.3 Saudi Arabia Market States and Outlook (2013-2023)
    - 1.4.4.4 South Africa Market States and Outlook (2013-2023)
    - 1.4.4.5 Nigeria Market States and Outlook (2013-2023)
- 1.5 Market Dynamics
  - 1.5.1 Market Opportunities
  - 1.5.2 Market Risk

### 1.5.3 Market Driving Force

## **2 MANUFACTURERS PROFILES**

### 2.1 CTBN with 8-12% Acrylonitrile

#### 2.1.1 Business Overview

#### 2.1.2 CTBN Type and Applications

##### 2.1.2.1 Product A

##### 2.1.2.2 Product B

#### 2.1.3 CTBN with 8-12% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.2 CTBN with 12-18% Acrylonitrile

#### 2.2.1 Business Overview

#### 2.2.2 CTBN Type and Applications

##### 2.2.2.1 Product A

##### 2.2.2.2 Product B

#### 2.2.3 CTBN with 12-18% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.3 CTBN with 18-22% Acrylonitrile

#### 2.3.1 Business Overview

#### 2.3.2 CTBN Type and Applications

##### 2.3.2.1 Product A

##### 2.3.2.2 Product B

#### 2.3.3 CTBN with 18-22% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.4 CTBN with 22-27% Acrylonitrile

#### 2.4.1 Business Overview

#### 2.4.2 CTBN Type and Applications

##### 2.4.2.1 Product A

##### 2.4.2.2 Product B

#### 2.4.3 CTBN with 22-27% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.5 Others

#### 2.5.1 Business Overview

#### 2.5.2 CTBN Type and Applications

##### 2.5.2.1 Product A

##### 2.5.2.2 Product B

#### 2.5.3 Others CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### **3 GLOBAL CTBN SALES, REVENUE, MARKET SHARE AND COMPETITION BY MANUFACTURER (2016-2017)**

- 3.1 Global CTBN Sales and Market Share by Manufacturer (2016-2017)
- 3.2 Global CTBN Revenue and Market Share by Manufacturer (2016-2017)
- 3.3 Market Concentration Rate
  - 3.3.1 Top 3 CTBN Manufacturer Market Share in 2017
  - 3.3.2 Top 6 CTBN Manufacturer Market Share in 2017
- 3.4 Market Competition Trend

### **4 GLOBAL CTBN MARKET ANALYSIS BY REGIONS**

- 4.1 Global CTBN Sales, Revenue and Market Share by Regions
  - 4.1.1 Global CTBN Sales and Market Share by Regions (2013-2018)
  - 4.1.2 Global CTBN Revenue and Market Share by Regions (2013-2018)
- 4.2 North America CTBN Sales and Growth Rate (2013-2018)
- 4.3 Europe CTBN Sales and Growth Rate (2013-2018)
- 4.4 Asia-Pacific CTBN Sales and Growth Rate (2013-2018)
- 4.5 South America CTBN Sales and Growth Rate (2013-2018)
- 4.6 Middle East and Africa CTBN Sales and Growth Rate (2013-2018)

### **5 NORTH AMERICA CTBN BY COUNTRIES**

- 5.1 North America CTBN Sales, Revenue and Market Share by Countries
  - 5.1.1 North America CTBN Sales and Market Share by Countries (2013-2018)
  - 5.1.2 North America CTBN Revenue and Market Share by Countries (2013-2018)
- 5.2 United States CTBN Sales and Growth Rate (2013-2018)
- 5.3 Canada CTBN Sales and Growth Rate (2013-2018)
- 5.4 Mexico CTBN Sales and Growth Rate (2013-2018)

### **6 EUROPE CTBN BY COUNTRIES**

- 6.1 Europe CTBN Sales, Revenue and Market Share by Countries
  - 6.1.1 Europe CTBN Sales and Market Share by Countries (2013-2018)
  - 6.1.2 Europe CTBN Revenue and Market Share by Countries (2013-2018)
- 6.2 Germany CTBN Sales and Growth Rate (2013-2018)
- 6.3 UK CTBN Sales and Growth Rate (2013-2018)
- 6.4 France CTBN Sales and Growth Rate (2013-2018)

6.5 Russia CTBN Sales and Growth Rate (2013-2018)

6.6 Italy CTBN Sales and Growth Rate (2013-2018)

## **7 ASIA-PACIFIC CTBN BY COUNTRIES**

7.1 Asia-Pacific CTBN Sales, Revenue and Market Share by Countries

7.1.1 Asia-Pacific CTBN Sales and Market Share by Countries (2013-2018)

7.1.2 Asia-Pacific CTBN Revenue and Market Share by Countries (2013-2018)

7.2 China CTBN Sales and Growth Rate (2013-2018)

7.3 Japan CTBN Sales and Growth Rate (2013-2018)

7.4 Korea CTBN Sales and Growth Rate (2013-2018)

7.5 India CTBN Sales and Growth Rate (2013-2018)

7.6 Southeast Asia CTBN Sales and Growth Rate (2013-2018)

## **8 SOUTH AMERICA CTBN BY COUNTRIES**

8.1 South America CTBN Sales, Revenue and Market Share by Countries

8.1.1 South America CTBN Sales and Market Share by Countries (2013-2018)

8.1.2 South America CTBN Revenue and Market Share by Countries (2013-2018)

8.2 Brazil CTBN Sales and Growth Rate (2013-2018)

8.3 Argentina CTBN Sales and Growth Rate (2013-2018)

8.4 Colombia CTBN Sales and Growth Rate (2013-2018)

## **9 MIDDLE EAST AND AFRICA CTBN BY COUNTRIES**

9.1 Middle East and Africa CTBN Sales, Revenue and Market Share by Countries

9.1.1 Middle East and Africa CTBN Sales and Market Share by Countries (2013-2018)

9.1.2 Middle East and Africa CTBN Revenue and Market Share by Countries  
(2013-2018)

9.2 Saudi Arabia CTBN Sales and Growth Rate (2013-2018)

9.3 UAE CTBN Sales and Growth Rate (2013-2018)

9.4 Egypt CTBN Sales and Growth Rate (2013-2018)

9.5 Nigeria CTBN Sales and Growth Rate (2013-2018)

9.6 South Africa CTBN Sales and Growth Rate (2013-2018)

## **10 GLOBAL CTBN MARKET SEGMENT BY TYPE**

10.1 Global CTBN Sales, Revenue and Market Share by Type (2013-2018)

10.1.1 Global CTBN Sales and Market Share by Type (2013-2018)



- 10.1.2 Global CTBN Revenue and Market Share by Type (2013-2018)
- 10.2 Adhesives & Sealants Sales Growth and Price
  - 10.2.1 Global Adhesives & Sealants Sales Growth (2013-2018)
  - 10.2.2 Global Adhesives & Sealants Price (2013-2018)
- 10.3 Coating Sales Growth and Price
  - 10.3.1 Global Coating Sales Growth (2013-2018)
  - 10.3.2 Global Coating Price (2013-2018)
- 10.4 Electronic Appliances Sales Growth and Price
  - 10.4.1 Global Electronic Appliances Sales Growth (2013-2018)
  - 10.4.2 Global Electronic Appliances Price (2013-2018)
- 10.5 Aerospace Sales Growth and Price
  - 10.5.1 Global Aerospace Sales Growth (2013-2018)
  - 10.5.2 Global Aerospace Price (2013-2018)
- 10.6 Composites Sales Growth and Price
  - 10.6.1 Global Composites Sales Growth (2013-2018)
  - 10.6.2 Global Composites Price (2013-2018)
- 10.7 Others Sales Growth and Price
  - 10.7.1 Global Others Sales Growth (2013-2018)
  - 10.7.2 Global Others Price (2013-2018)

## **11 GLOBAL CTBN MARKET SEGMENT BY APPLICATION**

- 11.1 Global CTBN Sales Market Share by Application (2013-2018)

## **12 CTBN MARKET FORECAST (2018-2023)**

- 12.1 Global CTBN Sales, Revenue and Growth Rate (2018-2023)
- 12.2 CTBN Market Forecast by Regions (2018-2023)
  - 12.2.1 North America CTBN Market Forecast (2018-2023)
  - 12.2.2 Europe CTBN Market Forecast (2018-2023)
  - 12.2.3 Asia-Pacific CTBN Market Forecast (2018-2023)
  - 12.2.4 South America CTBN Market Forecast (2018-2023)
  - 12.2.5 Middle East and Africa CTBN Market Forecast (2018-2023)
- 12.3 CTBN Market Forecast by Type (2018-2023)
  - 12.3.1 Global CTBN Sales Forecast by Type (2018-2023)
  - 12.3.2 Global CTBN Market Share Forecast by Type (2018-2023)
- 12.4 CTBN Market Forecast by Application (2018-2023)
  - 12.4.1 Global CTBN Sales Forecast by Application (2018-2023)
  - 12.4.2 Global CTBN Market Share Forecast by Application (2018-2023)

## **13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS**

### 13.1 Sales Channel

#### 13.1.1 Direct Marketing

#### 13.1.2 Indirect Marketing

#### 13.1.3 Marketing Channel Future Trend

### 13.2 Distributors, Traders and Dealers

## **14 RESEARCH FINDINGS AND CONCLUSION**

## **15 APPENDIX**

### 15.1 Methodology

### 15.2 Data Source

## List Of Tables

### LIST OF TABLES AND FIGURES

- Figure CTBN Picture
- Table Product Specifications of CTBN
- Figure Global Sales Market Share of CTBN by Types in 2017
- Table CTBN Types for Major Manufacturers
- Figure Adhesives & Sealants Picture
- Figure Coating Picture
- Figure Electronic Appliances Picture
- Figure Aerospace Picture
- Figure Composites Picture
- Figure Others Picture
- Figure CTBN Sales Market Share by Applications in 2017
- Figure United States CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Canada CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Mexico CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Germany CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure France CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure UK CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Russia CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Italy CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure China CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Japan CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Korea CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure India CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Southeast Asia CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Brazil CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Egypt CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Saudi Arabia CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure South Africa CTBN Revenue (Value) and Growth Rate (2013-2023)
- Figure Nigeria CTBN Revenue (Value) and Growth Rate (2013-2023)
- Table CTBN with 8-12% Acrylonitrile Basic Information, Manufacturing Base and Competitors
- Table CTBN with 8-12% Acrylonitrile CTBN Type and Applications
- Table CTBN with 8-12% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- Table CTBN with 12-18% Acrylonitrile Basic Information, Manufacturing Base and

## Competitors

Table CTBN with 12-18% Acrylonitrile CTBN Type and Applications

Table CTBN with 12-18% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table CTBN with 18-22% Acrylonitrile Basic Information, Manufacturing Base and Competitors

Table CTBN with 18-22% Acrylonitrile CTBN Type and Applications

Table CTBN with 18-22% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table CTBN with 22-27% Acrylonitrile Basic Information, Manufacturing Base and Competitors

Table CTBN with 22-27% Acrylonitrile CTBN Type and Applications

Table CTBN with 22-27% Acrylonitrile CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Others Basic Information, Manufacturing Base and Competitors

Table Others CTBN Type and Applications

Table Others CTBN Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Global CTBN Sales by Manufacturer (2016-2017)

Figure Global CTBN Sales Market Share by Manufacturer in 2016

Figure Global CTBN Sales Market Share by Manufacturer in 2017

Table Global CTBN Revenue by Manufacturer (2016-2017)

Figure Global CTBN Revenue Market Share by Manufacturer in 2016

Figure Global CTBN Revenue Market Share by Manufacturer in 2017

Figure Top 3 CTBN Manufacturer (Revenue) Market Share in 2017

Figure Top 6 CTBN Manufacturer (Revenue) Market Share in 2017

Figure Global CTBN Sales and Growth Rate (2013-2018)

Figure Global CTBN Revenue and Growth Rate (2013-2018)

Table Global CTBN Sales by Regions (2013-2018)

Table Global CTBN Sales Market Share by Regions (2013-2018)

Table Global CTBN Revenue by Regions (2013-2018)

Figure Global CTBN Revenue Market Share by Regions in 2013

Figure Global CTBN Revenue Market Share by Regions in 2017

Figure North America CTBN Sales and Growth Rate (2013-2018)

Figure Europe CTBN Sales and Growth Rate (2013-2018)

Figure Asia-Pacific CTBN Sales and Growth Rate (2013-2018)

Figure South America CTBN Sales and Growth Rate (2013-2018)

Figure Middle East and Africa CTBN Sales and Growth Rate (2013-2018)

Figure North America CTBN Revenue and Growth Rate (2013-2018)

Table North America CTBN Sales by Countries (2013-2018)  
Table North America CTBN Sales Market Share by Countries (2013-2018)  
Figure North America CTBN Sales Market Share by Countries in 2013  
Figure North America CTBN Sales Market Share by Countries in 2017  
Table North America CTBN Revenue by Countries (2013-2018)  
Table North America CTBN Revenue Market Share by Countries (2013-2018)  
Figure North America CTBN Revenue Market Share by Countries in 2013  
Figure North America CTBN Revenue Market Share by Countries in 2017  
Figure United States CTBN Sales and Growth Rate (2013-2018)  
Figure Canada CTBN Sales and Growth Rate (2013-2018)  
Figure Mexico CTBN Sales and Growth Rate (2013-2018)  
Figure Europe CTBN Revenue and Growth Rate (2013-2018)  
Table Europe CTBN Sales by Countries (2013-2018)  
Table Europe CTBN Sales Market Share by Countries (2013-2018)  
Table Europe CTBN Revenue by Countries (2013-2018)  
Figure Europe CTBN Revenue Market Share by Countries in 2016  
Figure Europe CTBN Revenue Market Share by Countries in 2017  
Figure Germany CTBN Sales and Growth Rate (2013-2018)  
Figure UK CTBN Sales and Growth Rate (2013-2018)  
Figure France CTBN Sales and Growth Rate (2013-2018)  
Figure Russia CTBN Sales and Growth Rate (2013-2018)  
Figure Italy CTBN Sales and Growth Rate (2013-2018)  
Figure Asia-Pacific CTBN Revenue and Growth Rate (2013-2018)  
Table Asia-Pacific CTBN Sales by Countries (2013-2018)  
Table Asia-Pacific CTBN Sales Market Share by Countries (2013-2018)  
Figure Asia-Pacific CTBN Sales Market Share by Countries 2017  
Table Asia-Pacific CTBN Revenue by Countries (2013-2018)  
Figure Asia-Pacific CTBN Revenue Market Share by Countries 2017  
Figure China CTBN Sales and Growth Rate (2013-2018)  
Figure Japan CTBN Sales and Growth Rate (2013-2018)  
Figure Korea CTBN Sales and Growth Rate (2013-2018)  
Figure India CTBN Sales and Growth Rate (2013-2018)  
Figure Southeast Asia CTBN Sales and Growth Rate (2013-2018)  
Figure South America CTBN Revenue and Growth Rate (2013-2018)  
Table South America CTBN Sales by Countries (2013-2018)  
Table South America CTBN Sales Market Share by Countries (2013-2018)  
Figure South America CTBN Sales Market Share by Countries in 2017  
Table South America CTBN Revenue by Countries (2013-2018)  
Table South America CTBN Revenue Market Share by Countries (2013-2018)

Figure South America CTBN Revenue Market Share by Countries in 2017  
Figure Brazil CTBN Sales and Growth Rate (2013-2018)  
Figure Argentina CTBN Sales and Growth Rate (2013-2018)  
Figure Colombia CTBN Sales and Growth Rate (2013-2018)  
Figure Middle East and Africa CTBN Revenue and Growth Rate (2013-2018)  
Table Middle East and Africa CTBN Sales by Countries (2013-2018)  
Table Middle East and Africa CTBN Sales Market Share by Countries (2013-2018)  
Figure Middle East and Africa CTBN Sales Market Share by Countries in 2017  
Table Middle East and Africa CTBN Revenue by Countries (2013-2018)  
Table Middle East and Africa CTBN Revenue Market Share by Countries (2013-2018)  
Figure Middle East and Africa CTBN Revenue Market Share by Countries in 2013  
Figure Middle East and Africa CTBN Revenue Market Share by Countries in 2017  
Figure Saudi Arabia CTBN Sales and Growth Rate (2013-2018)  
Figure UAE CTBN Sales and Growth Rate (2013-2018)  
Figure Egypt CTBN Sales and Growth Rate (2013-2018)  
Figure Nigeria CTBN Sales and Growth Rate (2013-2018)  
Figure South Africa CTBN Sales and Growth Rate (2013-2018)  
Table Global CTBN Sales by Type (2013-2018)  
Table Global CTBN Sales Share by Type (2013-2018)  
Table Global CTBN Revenue by Type (2013-2018)  
Table Global CTBN Revenue Share by Type (2013-2018)  
Figure Global Adhesives & Sealants Sales Growth (2013-2018)  
Figure Global Adhesives & Sealants Price (2013-2018)  
Figure Global Coating Sales Growth (2013-2018)  
Figure Global Coating Price (2013-2018)  
Figure Global Electronic Appliances Sales Growth (2013-2018)  
Figure Global Electronic Appliances Price (2013-2018)  
Figure Global Aerospace Sales Growth (2013-2018)  
Figure Global Aerospace Price (2013-2018)  
Figure Global Composites Sales Growth (2013-2018)  
Figure Global Composites Price (2013-2018)  
Figure Global Others Sales Growth (2013-2018)  
Figure Global Others Price (2013-2018)  
Table Global CTBN Sales by Application (2013-2018)  
Table Global CTBN Sales Share by Application (2013-2018)  
Figure Global CTBN Sales, Revenue and Growth Rate (2018-2023)  
Table Global CTBN Sales Forecast by Regions (2018-2023)  
Table Global CTBN Market Share Forecast by Regions (2018-2023)  
Figure North America Sales CTBN Market Forecast (2018-2023)

Figure Europe Sales CTBN Market Forecast (2018-2023)  
Figure Asia-Pacific Sales CTBN Market Forecast (2018-2023)  
Figure South America Sales CTBN Market Forecast (2018-2023)  
Figure Middle East and Africa Sales CTBN Market Forecast (2018-2023)  
Table Global CTBN Sales Forecast by Type (2018-2023)  
Table Global CTBN Market Share Forecast by Type (2018-2023)  
Table Global CTBN Sales Forecast by Application (2018-2023)  
Table Global CTBN Market Share Forecast by Application (2018-2023)  
Table Distributors/Traders/ Dealers List

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