Global Phosphorus-based Flame Retardant Chemical Market: 2015-2020

Description: The global phosphorus-based flame retardant is primarily used in the electrical and electronics; transportation; and building and construction industries. The Asia-Pacific region dominates the global phosphorus-based flame retardant market followed by Europe and North America.

The major players in the phosphorus-based flame retardant market across regions include Apexical, BASF, Chemtura, Clariant, Cytec, Daihachi Chemical, Dover Chemical, Israel Chemicals, Italmatch Chemicals, Jiangsu Yoke Technology, Nippon Carbide, Rin Kagaku Kogyo, Shandong Brother Science and Technology, Solaris Chemtech and Tina Organics.

This market research report explains current market for phosphorus-based flame retardant in terms of value and volume. The report also highlights the major drivers and challenges, including their profiles related to phosphorus-based flame retardant.

The global market for phosphorus-based flame retardant has been growing at a CAGR (2015 to 2020) of 9.0% driven by the growth in the end-user application industries.

Contents:

1 Introduction
- Objectives
- Scope
- Data Sources
- Disclaimer

2 Summary

3 Overview
- Mechanism of Flame Retardancy
- Categories of Flame Retardants
- Additive Flame Retardants
- Reactive Flame Retardants
- Synergist Flame Retardants
- Phosphorus-Based Flame Retardant Chemicals
- Phosphorus Based Flame Retardants (Pfrs)
- Intermediate Applications of Flame Retardants
- End User Application Industry
- Electrical And Electronics (Eee)
- Building And Construction
- Transportation
- Textile
- Wires And Cables
- Others End User Applications

4 Phosphorus-Based Flame Retardant Chemicals
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals by Intermediate Applications
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals by End Application
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals by Region
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals Used in Polyolefin, by Region
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals Used in Paints And Coatings, by Region
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals Used in Epoxy Resins, by Region
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals Used in Unsaturated Polyester, by Region
- Global Market Forecast for Phosphorus-Based Flame Retardant Chemicals Used in Pvc, by Region
- Global Market Forecast for Phosphorus-Based Flame Retardants Used in Engineering Thermoplastic, by Region
5 Market Drivers And Challenges
- Drivers
  - Growth in Transportation Industry
  - Growth in Automotive Industry
  - Growth of Aerospace And Defense Industry
  - Growth in Electrical And Electronics Industry
  - Growth in Wires And Cables Industry
- Challenge
  - Increasing Price May Lead To Decrease in Demand

6 Supplier Landscape And Company Profiles
- Apexical, Inc.
- Basf Se
- Chemtura Corp.
- Clariant Ag
- Cytec Industries Inc., [Nyse: Cyt]
- Daihachi Chemical Industry Co., Ltd.
- Dover Chemical Corp.
- Israel Chemicals
- Italmatch Chemicals Spa
- Jiangsu Yoke Technology Co., Ltd
- Nippon Carbide Industries Co., Inc.
- Rin Kagaku Kogyo Co., Ltd.
- Shandong Brother Science And Technology Company Ltd.
- Solaris Chemtech Industries Ltd.
- Tina Organics Private Limited

List of Tables:
Summary Table Volume Forecast - Phosphorus-Based Flame Retardant Chemicals, by Region, 2015-2020 (Thousands Tons)
Table: 01 Major Flame Retardant Chemicals Manufacturers by Region
Table: 02 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Through 2020 ($ Millions)
Table: 03 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Through 2020 (Kilo Tons)
Table: 04 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Intermediate Applications, Through 2020 ($ Millions)
Table: 05 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Intermediate Applications, Through 2020 (Kilo Tons)
Table: 06 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by End Application, Through 2020 ($ Millions)
Table: 07 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by End Application, Through 2020 (Kilo Tons)
Table: 08 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Region, Through 2020 ($ Millions)
Table: 09 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Region, Through 2020 (Kilo Tons)
Table: 10 Value Forecast: Global Value Market for Phosphorus-Based Flame Retardant Chemicals Used in Polyolefin by Region, Through 2020 ($ Millions)
Table: 11 Volume Forecast: Global Value Market for Phosphorus-Based Flame Retardant Chemicals Used in Polyolefin by Region, Through 2020 (Kilo Tons)
Table: 12 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Paints And Coatings by Region, Through 2020 ($ Millions)
Table: 13 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Paints And Coatings by Region, Through 2020 (Kilo Tons)
Table: 14 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Epoxy Resins by Region, Through 2020 ($ Millions)
Table: 15 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Epoxy Resins by Region, Through 2020 (Kilo Tons)
Table: 16 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Unsaturated Polyester, by Region, Through 2020 ($ Millions)
Table: 17 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Unsaturated Polyester, by Region, Through 2020 (Kilo Tons)
Table: 18 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Pvc, by Region, Through 2020 ($ Millions)
Table: 19 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Pvc, by Region, Through 2020 (Kilo Tons)
Table: 20 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Engineering Thermoplastic, by Region, Through 2020 ($ Millions)
Table: 21 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Engineering Thermoplastic, by Region, Through 2020 (Kilo Tons)
Table: 22 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Styrenics, by Region, Through 2020 ($ Millions)
Table: 23 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Styrenics, by Region, Through 2020 (Kilo Tons)
Table: 24 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Other Intermediate Applications, by Region, Through 2020 ($ Millions)
Table: 25 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Other Intermediate Applications, by Region, Through 2020 (Kilo Tons)
Table: 26 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Electrical And Electronics Items by Region, Through 2020 ($ Millions)
Table: 27 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Electrical And Electronics Items by Region, Through 2020 (Kilo Tons)
Table: 28 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Building And Construction, by Region, Through 2020 ($ Millions)
Table: 29 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Building And Construction, by Region, Through 2020 (Kilo Tons)
Table: 30 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Transportation by Region, Through 2020 ($ Millions)
Table: 31 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Transportation by Region, Through 2020 (Kilo Tons)
Table: 32 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Textile by Region, Through 2020 ($ Millions)
Table: 33 Volume Forecast: Global Market for Phosphorus-Based Flame Retardants Used in Textile by Region, Through 2020 (Kilo Tons)
Table: 34 Value Forecast: Global Value Market for Phosphorus-Based Flame Retardant Chemicals Used in Wires And Cables by Region, Through 2020 ($ Millions)
Table: 35 Volume Forecast: Global Value Market for Phosphorus-Based Flame Retardant Chemicals Used in Wires And Cables by Region, Through 2020 (Kilo Tons)
Table: 36 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Other End Applications by Region, Through 2020 ($ Millions)
Table: 37 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Other End Applications by Region, Through 2020 (Kilo Tons)
Table: 38 Key Drivers for The Buildings Sector, 2010 And 2050
Table: 39 The U.S. Construction Market, 2011-2014 ($ Million)
Table: 40 Top 8 Countries Production of Electrical Vehicles, 2014 (Thousands)
Table: 41 Global Air Traffic Flow: 2010-2014 And 2034 (Rpks- in Billions)
Table: 42 Sale of Passenger And Freighter Aircrafts: 2014-2034 (Units)
Table: 43 Apexical, Inc.’s Flame Retardants And Their Applications
Table: 44 Financial Summary - Basf Se (Fy 2011 - 2014)
Table: 45 Financial Summary - Chemtura Corp. (Fy 2011 - 2014)
Table: 46 Financial Summary - Clariant Ag (Fy 2011 - 2014)
Table: 47 Financial Summary - Cytec Industries Inc (Fy 2011 - 2014)
Table: 48 Halogen Containing Phosphoric Acid Ester
Table: 49 Halogen Containing Phosphoric Acid Polyesters
Table: 50 Non-Halogen Phosphoric Acid Esters
Table: 51 Non-Halogen Phosphoric Acid Polyesters
Table: 52 Financial Summary - Israel Chemicals (Fy 2011 - 2014)
Table: 53 Italmatch's Flame Retardant Product Brands
Table: 54 Yoke Flame Retardant Product List
Table: 55 Financial Summary - Nippon Carbide Industries Co., Inc. (Fy 2011 - 2014)
Table: 56 Shandong Brother Science Andtechnology Company Ltd.Bromited Flame Retardant Produc
Table: 57 Shandong Brother Science Andtechnology Company Ltd.Halogen-Free Flame Retardant Products

List of Figures:
Summary Chart Value Forecast: Phosphorus-Based Flame Retardant Chemicals, by Region, 2015-2020 (Thousand Tons)
Figure: 01 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Intermediate Applications, 2015 And 2020 (%)
Figure: 02 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Intermediate Applications, 2015 And 2020 (%)
Figure: 03 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by End Application, 2015 And 2020 (%)
Figure: 04 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by End Application, 2015 And 2020 (%)
Figure: 05 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Region, 2015 And 2020 (%)
Figure: 06 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals by Region, 2015 And 2020 (%)
Figure: 07 Value Forecast: Global Value Market for Phosphorus-Based Flame Retardant Chemicals Used in Polyolefin by Region, 2015 And 2020 (%)
Figure: 08 Volume Forecast: Global Value Market for Phosphorus-Based Flame Retardant Chemicals Used in Polyolefin by Region, 2015 And 2020 (%)
Figure: 09 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Paints And Coatings by Region, 2015 And 2020 (%)
Figure: 10 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Paints And Coatings by Region, 2015 And 2020 (%)
Figure: 11 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Epoxy Resins by Region, 2015 And 2020 (%)
Figure: 12 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Epoxy Resins by Region, 2015 And 2020 (%)
Figure: 13 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Unsaturated Polyester, by Region, 2015 And 2020 (%)
Figure: 14 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Unsaturated Polyester, by Region, 2015 And 2020 (%)
Figure: 15 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Pvc, by Region, 2015 And 2020 (%)
Figure: 16 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Pvc, by Region, 2015 And 2020 (%)
Figure: 17 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Engineering Thermoplastic, by Region, 2015 And 2020 (%)
Figure: 18 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Engineering Thermoplastic, by Region, 2015 And 2020 (%)
Figure: 19 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Styrenics, by Region, 2015 And 2020 (%)
Figure: 20 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Styrenics, by Region, 2015 And 2020 (%)
Figure: 21 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Other Intermediate Applications, by Region, 2015 And 2020 (%)
Figure: 22 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Other Intermediate Applications, by Region, 2015 And 2020 (%)
Figure: 23 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Electrical And Electronics Items by Region, 2015 And 2020 (%)
Figure: 24 Volume Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Electrical And Electronics Items by Region, 2015 And 2020 (%)
Figure: 25 Value Forecast: Global Market for Phosphorus-Based Flame Retardant Chemicals Used in Building And Construction, by Region, 2015 And 2020 (%)

RESEARCH AND MARKETS
Ordering:

Order Online - [http://www.researchandmarkets.com/reports/3736802/](http://www.researchandmarkets.com/reports/3736802/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Global Phosphorus-based Flame Retardant Chemical Market: 2015-2020
Web Address: http://www.researchandmarkets.com/reports/3736802/
Office Code: SCBRPOD3

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td>USD 3000</td>
</tr>
<tr>
<td>Hard Copy - Enterprise wide</td>
<td>USD 5000 + USD 58 Shipping/Handling</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprise wide</td>
<td>USD 5000</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr ☐</th>
<th>Mrs ☐</th>
<th>Dr ☐</th>
<th>Miss ☐</th>
<th>Ms ☐</th>
<th>Prof ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:

(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World