Phosphorus Trichloride Market Research Report - Forecast to 2023

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Description:

Global Phosphorus Trichloride Market: By Application (Chemical Intermediate, Agrochemicals, A Gasoline Additive, Plasticizer, Pharmaceuticals, And Others) And Region- Forecast Till 2023

Phosphorus trichloride is a chemical compound consisting of phosphorus and chlorine. It is a white to light yellow in color with a pungent smell of hydrochloric acid. The product occurs in its pure natural form and can also be manufactured synthetically. It is primarily used in chemical synthesis of organophosphorus compounds and is a precursor to chemicals such as phosphorus pentachloride (PCl5), phosphoryl chloride (POCl3), and thiophosphoryl chloride (PSCl3).

The global phosphorus trichloride market is majorly driven by growing demand for manufacturing commodity chemicals and agrochemicals. Organophosphonates are used in various water treatment processes as cleaners, chelating agents, corrosion inhibitors and anti-scaling agent which is likely to drive the market growth. The surging demand for agrochemicals to meet the increasing consumption needs of rapidly growing population is another major factor driving growth of the market. It is a key ingredient in the manufacturing of gasoline additives, which is expected to propel the market growth due to high efficiency and better quality fuels from automotive sector. Moreover, the high demand for phosphorus trichloride as a plasticizer is further augmenting the market growth owing to their use in PVC for providing improved flexibility, plasticity, and durability. The product is a raw material to the drug named Sulfadiazine used for prevention of diseases such as rheumatic fever, chancroid, chlamydia, and infections from Haemophilus influenzae. According to the New England Journal of Medicine, there were 33.4 million cases of rheumatic heart disease and 10.5 million disability-adjusted life-years due to rheumatic heart disease globally. The increasing awareness about the heart related and sexually transmitted diseases is driving the market growth. It is also used for electrodeposition of metal on rubber and for production of flame retardants.

However, it is classified as extremely toxic and corrosive under EU Directive 67/548/EEC, which may challenge the market growth during the assessment period. Additionally, National Institute for Occupational Safety & Health (NIOSH) and Occupational Safety and Health Association (OSHA) have set limitations on the exposure of the product.

Global Phosphorus Trichloride Share, by the Application (%)
Regional Analysis

The global phosphorus trichloride market is segmented into five regions: Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa.

The Asia Pacific is anticipated to lead the global phosphorus trichloride market due to the high demand for chemicals and agrochemical industries. The use of phosphorus trichloride in the manufacturing of fertilizers, insecticides, and pesticides is the major driver of the market in this region. The increasing demand for better crop productivity mingled with the growing population is likely to fuel the market growth in coming years.

The North American market is primarily driven by the high demand for phosphorus trichloride from robust chemical industries in this region. Furthermore, the demand for pharmaceuticals in the U.S. drives the market growth positively.

Europe is another significant region in the global phosphorus trichloride market on account of the growing demand from major end-use industries such as chemicals, plastics & polymers, and others.

The Latin American market is driven by the increased product demand for manufacturing plasticizers with Brazil and Argentina being the major countries.

Lastly, the Middle East & Africa is anticipated to showcase a significant growth on account of the increasing demand for agrochemicals and pesticides owing to the increased health awareness among the consumers and demand for food production. The demand for food production is driven by lack of agricultural land.

Segmentation

The global phosphorus trichloride market is segmented on the basis of the application and region.

Based on the application, the global phosphorus trichloride market is segmented into chemical intermediate, agrochemicals, a gasoline additive, plasticizer, pharmaceuticals, and others.

Geographically, the global phosphorus trichloride market is segmented into five major regions namely Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa.

Key Players

Some of the prominent manufacturers in the global market of phosphorus trichloride are Monsanto Company (the U.S.), Solvay (Belgium), Merck KGaA (Germany), LAXNESS (Germany), PCC Rokita (Poland), ICL (Israel), SANDHYA GROUP (India), Alfa Aesar, Thermo Fisher Scientific (the U.S.), Parchem fine & specialty chemicals (New York), and Xuzhou Jianping Chemical Co., Ltd (China).

Intended Audience

- Phosphorus trichloride Manufacturers
- Traders and distributors of Phosphorus trichloride
Contents:

TABLE OF CONTENTS

1 Executive Summary

2 Scope of the Report

2.1 Market Definition

2.2 Scope of the Study

2.2.1 Research Objectives

2.2.2 Assumptions & Limitations

2.3 Markets Structure

3 Market Research Methodology

3.1 Research Process

3.2 Secondary Research

3.3 Primary Research

3.4 Forecast Model

4 Market Landscape

4.1 Porter’s Five Forces Analysis

4.1.1 Threat of New Entrants

4.1.2 Bargaining power of buyers

4.1.3 Threat of substitutes

4.1.4 Segment rivalry

4.2 Value Chain/Supply Chain of Global Phosphorus Trichloride Market

5 Industry Overview of Global Phosphorus Trichloride Market

5.1 Introduction

5.2 Growth Drivers

5.3 Impact analysis

5.4 Market Challenges

5.5 Impact analysis

6 Market Trends

6.1 Introduction

6.2 Growth Trends

6.3 Impact analysis

7 Global Phosphorus Trichloride Market by Application

7.1 Introduction

7.2 Chemical Intermediate

7.2.1 Market Estimates & Forecast, 2016-2023

7.2.2 Market Estimates & Forecast by Region, 2016-2023

7.3 Agrochemicals

7.3.1 Market Estimates & Forecast, 2016-2023

7.3.2 Market Estimates & Forecast by Region, 2016-2023

7.4 Gasoline additive

7.4.1 Market Estimates & Forecast, 2016-2023

7.4.2 Market Estimates & Forecast by Region, 2016-2023

7.5 Plasticizer
7.5.1 Market Estimates & Forecast, 2016-2023
7.5.2 Market Estimates & Forecast by Region, 2016-2023
7.6 Pharmaceuticals
7.6.1 Market Estimates & Forecast, 2016-2023
7.6.2 Market Estimates & Forecast by Region, 2016-2023
7.7 Others
7.7.1 Market Estimates & Forecast, 2016-2023
7.7.2 Market Estimates & Forecast by Region, 2016-2023

8. Global Phosphorus Trichloride Market by Region
8.1 Introduction
8.2 North America
8.2.1 Market Estimates & Forecast, 2016-2023
8.2.2 Market Estimates & Forecast by Application, 2016-2023
8.2.3 US
8.2.3.1 Market Estimates & Forecast, 2016-2023
8.2.3.2 Market Estimates & Forecast by Application, 2016-2023
8.2.4 Canada
8.2.4.1 Market Estimates & Forecast, 2016-2023
8.2.4.2 Market Estimates & Forecast by Application, 2016-2023
8.3 Europe
8.3.1 Market Estimates & Forecast, 2016-2023
8.3.2 Market Estimates & Forecast by Application, 2016-2023
8.3.3 Germany
8.3.3.1 Market Estimates & Forecast, 2016-2023
8.3.3.2 Market Estimates & Forecast by Application, 2016-2023
8.3.4 France
8.3.4.1 Market Estimates & Forecast, 2016-2023
8.3.4.2 Market Estimates & Forecast by Application, 2016-2023
8.3.5 Italy
8.3.5.1 Market Estimates & Forecast, 2016-2023
8.3.5.2 Market Estimates & Forecast by Application, 2016-2023
8.3.6 Spain
8.3.6.1 Market Estimates & Forecast, 2016-2023
8.3.6.2 Market Estimates & Forecast by Application, 2016-2023
8.3.7 U.K
8.3.7.1 Market Estimates & Forecast, 2016-2023
8.3.7.2 Market Estimates & Forecast by Application, 2016-2023
8.3.8 Russia
8.3.8.1 Market Estimates & Forecast, 2016-2023
8.3.8.2 Market Estimates & Forecast by Application, 2016-2023
8.3.9 Poland
8.3.9.1 Market Estimates & Forecast, 2016-2023
8.3.9.2 Market Estimates & Forecast by Application, 2016-2023
8.4 Asia Pacific
8.4.1 Market Estimates & Forecast, 2016-2023
8.4.2 Market Estimates & Forecast by Application, 2016-2023
8.4.3 China
8.4.3.1 Market Estimates & Forecast, 2016-2023
8.6.6.2 Market Estimates & Forecast by Application, 2016-2023

9. Company Landscape

10. Company Profiles

10.1 Monsanto Company
10.1.1 Company Overview
10.1.2 Product/Business Segment Overview
10.1.3 Financial Updates
10.1.4 Key Developments

10.2 Solvay
10.2.1 Company Overview
10.2.2 Product/Business Segment Overview
10.2.3 Financial Updates
10.2.4 Key Developments

10.3 Merck KGaA
10.3.1 Company Overview
10.3.2 Product/Business Segment Overview
10.3.3 Financial Updates
10.3.4 Key Developments

10.4 LAXNESS
10.4.1 Company Overview
10.4.2 Product/Business Segment Overview
10.4.3 Financial Updates
10.4.4 Key Developments

10.5 PCC Rokita
10.5.1 Company Overview
10.5.2 Product/Business Segment Overview
10.5.3 Financial Updates
10.5.4 Key Developments

10.6 ICL
10.6.1 Company Overview
10.6.2 Product/Business Segment Overview
10.6.3 Financial Updates
10.6.4 Key Developments

10.7 SANDHYA GROUP
10.7.1 Company Overview
10.7.2 Product/Business Segment Overview
10.7.3 Financial Updates
10.7.4 Key Developments

10.8 Alfa Aesar, Thermo Fisher Scientific
10.8.1 Company Overview
10.8.2 Product/Business Segment Overview
10.8.3 Financial Updates
10.8.4 Key Developments

10.9 Parchem fine & specialty chemicals
10.9.1 Company Overview
10.9.2 Product/Business Segment Overview
10.9.3 Financial Updates
10.9.4 Key Developments

10.10 Xuzhou Jianping Chemical Co., Ltd

10.10.1 Company Overview

10.10.2 Product/Business Segment Overview

10.10.3 Financial Updates

10.10.4 Key Developments

11 Conclusion

LIST OF TABLES

<table>
<thead>
<tr>
<th>Table Number</th>
<th>Table Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 1</td>
<td>World Population by Major Regions (2016 To 2030)</td>
</tr>
<tr>
<td>Table 2</td>
<td>Global Phosphorus Trichloride Market: By Region, 2016-2023</td>
</tr>
<tr>
<td>Table 3</td>
<td>North America Phosphorus Trichloride Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 4</td>
<td>Europe Phosphorus Trichloride Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 5</td>
<td>Asia-Pacific Phosphorus Trichloride Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 6</td>
<td>Middle East &amp; Africa Phosphorus Trichloride Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 7</td>
<td>Latin America Phosphorus Trichloride Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 8</td>
<td>Global Phosphorus Trichloride by Application Market: By Regions, 2016-2023</td>
</tr>
<tr>
<td>Table 9</td>
<td>North America Phosphorus Trichloride by Application Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 10</td>
<td>Europe Phosphorus Trichloride by Application Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 11</td>
<td>Asia-Pacific Phosphorus Trichloride by Application Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 12</td>
<td>Middle East &amp; Africa Phosphorus Trichloride by Application Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 13</td>
<td>Latin America Phosphorus Trichloride by Application Market: By Country, 2016-2023</td>
</tr>
<tr>
<td>Table 14</td>
<td>Global Application Market: By Region, 2016-2023</td>
</tr>
<tr>
<td>Table 15</td>
<td>North America Phosphorus Trichloride Market, By Country</td>
</tr>
<tr>
<td>Table 16</td>
<td>North America Phosphorus Trichloride Market, By Application</td>
</tr>
<tr>
<td>Table 17</td>
<td>Europe: Phosphorus Trichloride Market, By Country</td>
</tr>
<tr>
<td>Table 18</td>
<td>Europe: Phosphorus Trichloride Market, By Application</td>
</tr>
<tr>
<td>Table 19</td>
<td>Asia-Pacific: Phosphorus Trichloride Market, By Country</td>
</tr>
<tr>
<td>Table 20</td>
<td>Asia-Pacific: Phosphorus Trichloride Market, By Application</td>
</tr>
<tr>
<td>Table 21</td>
<td>Middle East &amp; Africa: Phosphorus Trichloride Market, By Country</td>
</tr>
<tr>
<td>Table 22</td>
<td>Middle East &amp; Africa: Phosphorus Trichloride Market, By Application</td>
</tr>
<tr>
<td>Table 23</td>
<td>Latin America: Phosphorus Trichloride Market, By Country</td>
</tr>
<tr>
<td>Table 24</td>
<td>Latin America Phosphorus Trichloride Market, By Application</td>
</tr>
</tbody>
</table>

LIST OF FIGURES

<table>
<thead>
<tr>
<th>Figure Number</th>
<th>Figure Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIGURE 1</td>
<td>Global Phosphorus Trichloride Market segmentation</td>
</tr>
<tr>
<td>FIGURE 2</td>
<td>Forecast Methodology</td>
</tr>
<tr>
<td>FIGURE 3</td>
<td>Five Forces Analysis of Global Phosphorus Trichloride Market</td>
</tr>
<tr>
<td>FIGURE 4</td>
<td>Value Chain of Global Phosphorus Trichloride Market</td>
</tr>
<tr>
<td>FIGURE 5</td>
<td>Share of Global Phosphorus Trichloride Market in 2016, by country (in %)</td>
</tr>
<tr>
<td>FIGURE 6</td>
<td>Global Phosphorus Trichloride Market, 2016-2023,</td>
</tr>
<tr>
<td>FIGURE 7</td>
<td>Sub segments of Application</td>
</tr>
<tr>
<td>FIGURE 8</td>
<td>Global Phosphorus Trichloride Market size by Application, 2016</td>
</tr>
<tr>
<td>FIGURE 9</td>
<td>Share of Global Phosphorus Trichloride Market by Application, 2016 to 2023</td>
</tr>
</tbody>
</table>