

# Chlorine Market Forecast to 2030 - Global Analysis by Application (Ethylene Dichloride/Polyvinylchloride Production, Chloromethanes, Isocyanates & Oxygenates, Solvents, and Others) and End-Use Industry (Water Treatment, Chemicals, Pulp & Paper, Plastics, Pharmaceuticals, and Others)

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## Abstracts

The chlorine market size was valued at US\$ 19.98 billion in 2022 and is expected to reach US\$ 26.77 billion by 2030; it is estimated to register a CAGR of 4.1% from 2022 to 2030.

Chlorine is a highly versatile chemical with diverse applications across various industries. It is used in water treatment, PVC manufacturing, pharmaceuticals, agrochemicals, chemical manufacturing, and many other sectors. This broad spectrum of applications makes it challenging for a single substitute to cover all the different uses of chlorine, further driving the chlorine market growth. Chlorine is used in the chemical industry for various applications due to its unique chemical properties. It is a valuable building block and oxidizing agent contributing to synthesizing numerous chemical compounds and products. Chlorine is employed as a reactant in organic synthesis to introduce chlorine atoms into organic molecules. Chlorination reactions involve replacing hydrogen atoms with chlorine atoms in organic compounds, forming chlorinated organic compounds, such as chloroalkanes and chlorobenzenes. These compounds find applications as intermediates in producing various chemicals, plastics, and pharmaceuticals. In addition, chlorine is used to produce important chlorinated intermediates such as chlorine dioxide (ClO<sub>2</sub>) and chloramine. Chlorine dioxide is a powerful oxidizing agent and serves as a bleach and disinfectant. Furthermore, chlorine is a critical component in the chlor-alkali process, which produces chlorine, sodium

hydroxide, and hydrogen gas through the electrolysis of brine. Thus, increasing demand from end-use industries is expected to bolster the chlorine market growth.

In terms of end-use industry, the chlorine market is bifurcated into water treatment, chemicals, pulp & paper, plastics, pharmaceuticals, and others. The pharmaceuticals segment is expected to register highest CAGR in the chlorine market from 2022 to 2030. Chlorine and chlorine-based compounds play an important role in the pharmaceutical industry, contributing to the synthesis of various medications and pharmaceutical products. Chlorine-containing compounds serve as essential intermediates and reagents in the synthesis of pharmaceutical compounds, enabling the production of a wide range of drugs. Chlorine synthesizes many active pharmaceutical ingredients (APIs), primarily biologically active components in medications. These APIs form the basis of many drugs used to treat medical conditions such as cardiovascular diseases, infectious diseases, and respiratory disorders. In addition, chlorine's role as a halogen allows it to participate in halogenation reactions. Furthermore, chlorine-based compounds are used to manufacture antiseptics and disinfectants. These compounds are essential for sterilizing medical equipment, surface, and instruments to prevent infection and ensure aseptic conditions during medical procedures. All these factors are driving the chlorine market growth in the pharmaceutical sector.

Asia Pacific is estimated to register the fastest CAGR in the global chlorine market from 2022 to 2030. Asia Pacific relies on chlorine and its derivatives for various applications, leading to a steady and sustained demand for this versatile chemical. The demand for chlorine is growing in the wastewater treatment sector in Asia Pacific due to several reasons that highlight the significance of chlorine as a crucial water disinfection agent. As Asia Pacific countries strive to improve quality, protect public health, and meet stringent environmental regulations, chlorine has emerged as a reliable and effective solution for wastewater treatment. In addition, the Asia Pacific PVC market is experiencing steady growth, fueling the demand for chlorine as it is a primary raw material in PVC production. PVC is extensively used in various sectors, including construction, automotive, packaging, and healthcare. As Asia Pacific continues to invest in infrastructure development and sustainable construction practices, the demand for chlorine-based PVC materials is expected to rise, further driving the chlorine market growth.

A few players operating in the global chlorine market include Aditya Birla Chemicals India Ltd, BASF SE, Ercros SA, Hanwha Solutions Corp, INEOS Group Holdings SA, Occidental Petroleum Corp, Olin Corp, Tata Chemicals Ltd, Vynova Belgium NV, Sumitomo Chemical Co Ltd. Players operating in the global chlorine market focus on

providing high-quality products to fulfill customer demand. Also, they are focusing on launching new and high-quality products for their customers. For instance, in April 2022, OxyVinyls, the chemical division of Occidental Petroleum, is planning a US\$ 1.1 billion expansion and modernization project at its chlor-alkali plant in La Porte, Texas, according to documents filed with the Texas Comptroller's Office.

The overall global chlorine market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the chlorine market.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. GLOBAL CHLORINE MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
  - 4.2.1 Bargaining Power of Suppliers
  - 4.2.2 Bargaining Power of Buyers
  - 4.2.3 Threat of New Entrants
  - 4.2.4 Competitive Rivalry
  - 4.2.5 Threat of Substitutes
- 4.3 Ecosystem Analysis
  - 4.3.1 Raw Material Suppliers
    - 4.3.1.1 List of Vendors in the Value Chain
  - 4.3.2 Manufacturers
  - 4.3.3 Distributors/Suppliers
  - 4.3.4 End-Use Industry

### **5. GLOBAL CHLORINE MARKET – KEY MARKET DYNAMICS**

- 5.1 Market Drivers
  - 5.1.1 Growing Demand from Water and Wastewater Treatment Industry
  - 5.1.2 Flourishment of PVC Manufacturing Industry

## 5.2 Market Restraints

### 5.2.1 Stringent Government Regulations for Environment Protection

## 5.3 Market Opportunity

### 5.3.1 Growing Adoption from End-Use Industries

## 5.4 Future Trends

### 5.4.1 Development of Greener Chlorine

## 5.5 Impact Analysis

## **6. CHLORINE MARKET - GLOBAL MARKET ANALYSIS**

### 6.1 Global Chlorine Market Revenue (US\$ Million)

### 6.2 Global Chlorine Market Forecast and Analysis

## **7. GLOBAL CHLORINE MARKET ANALYSIS - APPLICATION**

### 7.1 Ethylene Dichloride/Polyvinylchloride Production

#### 7.1.1 Overview

#### 7.1.2 Ethylene Dichloride/Polyvinylchloride Production Market Revenue and Forecast to 2030 (US\$ Million)

### 7.2 Chloromethanes

#### 7.2.1 Overview

#### 7.2.2 Chloromethanes Market Revenue and Forecast to 2030 (US\$ Million)

### 7.3 Isocyanates and Oxygenates

#### 7.3.1 Overview

#### 7.3.2 Isocyanates and Oxygenates Market Revenue and Forecast to 2030 (US\$ Million)

### 7.4 Solvents

#### 7.4.1 Overview

### 7.5 Others

#### 7.5.1 Overview

## **8. GLOBAL CHLORINE MARKET ANALYSIS – END-USE INDUSTRY**

### 8.1 Water Treatment

#### 8.1.1 Overview

#### 8.1.2 Water Treatment Market Revenue, and Forecast to 2030 (US\$ Million)

### 8.2 Chemicals

#### 8.2.1 Overview

#### 8.2.2 Chemicals Market Revenue, and Forecast to 2030 (US\$ Million)

### 8.3 Pulp and Paper

### 8.3.1 Overview

### 8.3.2 Pulp and Paper Market Revenue and Forecast to 2030 (US\$ Million)

## 8.4 Plastics

### 8.4.1 Overview

### 8.4.2 Plastics Market Revenue and Forecast to 2030 (US\$ Million)

## 8.5 Pharmaceuticals

### 8.5.1 Overview

### 8.5.2 Pharmaceuticals Market Revenue and Forecast to 2030 (US\$ Million)

## 8.6 Others

### 8.6.1 Overview

### 8.6.2 Others Market Revenue and Forecast to 2030 (US\$ Million)

## **9. GLOBAL CHLORINE MARKET - GEOGRAPHICAL ANALYSIS**

### 9.1 North America

#### 9.1.1 North America Chlorine Market Overview

#### 9.1.2 North America Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)

#### 9.1.3 North America Chlorine Market Breakdown by Application

##### 9.1.3.1 North America Chlorine Market Revenue and Forecasts and Analysis - By Application

#### 9.1.4 North America Chlorine Market Breakdown by End-Use Industry

##### 9.1.4.1 North America Chlorine Market Revenue and Forecasts and Analysis - By End-Use Industry

#### 9.1.5 North America Chlorine Market Revenue and Forecasts and Analysis - By Countries

##### 9.1.5.1 Chlorine Market Breakdown by Country

##### 9.1.5.2 US Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)

###### 9.1.5.2.1 US Chlorine Market Breakdown by Application

###### 9.1.5.2.2 US Chlorine Market Breakdown by End-Use Industry

##### 9.1.5.3 Canada Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)

###### 9.1.5.3.1 Canada Chlorine Market Breakdown by Application

###### 9.1.5.3.2 Canada Chlorine Market Breakdown by End-Use Industry

##### 9.1.5.4 Mexico Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)

###### 9.1.5.4.1 Mexico Chlorine Market Breakdown by Application

###### 9.1.5.4.2 Mexico Chlorine Market Breakdown by End-Use Industry

### 9.2 Europe

#### 9.2.1 Europe Chlorine Market Overview

#### 9.2.2 Europe Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)

#### 9.2.3 Europe Chlorine Market Breakdown by Application

- 9.2.3.1 Europe Chlorine Market Revenue and Forecasts and Analysis - By Application
- 9.2.4 Europe Chlorine Market Breakdown by End-Use Industry
  - 9.2.4.1 Europe Chlorine Market Revenue and Forecasts and Analysis - By End-Use Industry
- 9.2.5 Europe Chlorine Market Revenue and Forecasts and Analysis - By Countries
  - 9.2.5.1 Chlorine Market Breakdown by Country
  - 9.2.5.2 Germany Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.2.5.2.1 Germany Chlorine Market Breakdown by Application
    - 9.2.5.2.2 Germany Chlorine Market Breakdown by End-Use Industry
  - 9.2.5.3 France Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.2.5.3.1 France Chlorine Market Breakdown by Application
    - 9.2.5.3.2 France Chlorine Market Breakdown by End-Use Industry
  - 9.2.5.4 Italy Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.2.5.4.1 Italy Chlorine Market Breakdown by Application
    - 9.2.5.4.2 Italy Chlorine Market Breakdown by End-Use Industry
  - 9.2.5.5 UK Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.2.5.5.1 UK Chlorine Market Breakdown by Application
    - 9.2.5.5.2 UK Chlorine Market Breakdown by End-Use Industry
  - 9.2.5.6 Russia Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.2.5.6.1 Russia Chlorine Market Breakdown by Application
    - 9.2.5.6.2 Russia Chlorine Market Breakdown by End-Use Industry
  - 9.2.5.7 Rest of Europe Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.2.5.7.1 Rest of Europe Chlorine Market Breakdown by Application
    - 9.2.5.7.2 Rest of Europe Chlorine Market Breakdown by End-Use Industry
- 9.3 Asia Pacific Chlorine Market
  - 9.3.1 Overview
  - 9.3.2 Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
  - 9.3.3 Asia Pacific Chlorine Market Breakdown by Application
    - 9.3.3.1 Asia Pacific Chlorine Market Revenue and Forecasts and Analysis - By Application
  - 9.3.4 Asia Pacific Chlorine Market Breakdown by End-Use Industry
    - 9.3.4.1 Asia Pacific Chlorine Market Revenue and Forecasts and Analysis - By End-Use Industry
  - 9.3.5 Asia Pacific Chlorine Market Breakdown by Country
    - 9.3.5.1 Chlorine Market Breakdown by Country
    - 9.3.5.2 Australia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
      - 9.3.5.2.1 Australia Chlorine Market Breakdown by Application
      - 9.3.5.2.2 Australia Chlorine Market Breakdown by End-Use Industry
    - 9.3.5.3 China Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)

- 9.3.5.3.1 China Chlorine Market Breakdown by Application
- 9.3.5.3.2 China Chlorine Market Breakdown by End-Use Industry
- 9.3.5.4 India Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
  - 9.3.5.4.1 India Chlorine Market Breakdown by Application
  - 9.3.5.4.2 India Chlorine Market Breakdown by End-Use Industry
- 9.3.5.5 Japan Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
  - 9.3.5.5.1 Japan Chlorine Market Breakdown by Application
  - 9.3.5.5.2 Japan Chlorine Market Breakdown by End-Use Industry
- 9.3.5.6 South Korea Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
  - 9.3.5.6.1 South Korea Chlorine Market Breakdown by Application
  - 9.3.5.6.2 South Korea Chlorine Market Breakdown by End-Use Industry
- 9.3.5.7 Rest of Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
  - 9.3.5.7.1 Rest of Asia Pacific Chlorine Market Breakdown by Application
  - 9.3.5.7.2 Rest of Asia Pacific Chlorine Market Breakdown by End-Use Industry
- 9.4 Middle East & Africa
  - 9.4.1 Middle East & Africa Chlorine Market Overview
  - 9.4.2 Middle East & Africa Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
    - 9.4.3 Middle East & Africa Chlorine Market Breakdown by Application
      - 9.4.3.1 Middle East & Africa Chlorine Market and Forecasts and Analysis - By Application
    - 9.4.4 Middle East & Africa Chlorine Market Breakdown by End-Use Industry
      - 9.4.4.1 Middle East & Africa Chlorine Market and Forecasts and Analysis - By End-Use Industry
  - 9.4.5 Middle East & Africa Chlorine Market Revenue and Forecasts and Analysis - By Countries
    - 9.4.5.1 Chlorine Market Breakdown by Country
    - 9.4.5.2 South Africa Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
      - 9.4.5.2.1 South Africa Chlorine Market Breakdown by Application
      - 9.4.5.2.2 South Africa Chlorine Market Breakdown by End-Use Industry
    - 9.4.5.3 Saudi Arabia Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
      - 9.4.5.3.1 Saudi Arabia Chlorine Market Breakdown by Application
      - 9.4.5.3.2 Saudi Arabia Chlorine Market Breakdown by End-Use Industry
    - 9.4.5.4 UAE Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
      - 9.4.5.4.1 UAE Chlorine Market Breakdown by Application
      - 9.4.5.4.2 UAE Chlorine Market Breakdown by End-Use Industry
    - 9.4.5.5 Rest of Middle East & Africa Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)



- 9.4.5.5.1 Rest of Middle East & Africa Chlorine Market Breakdown by Application
- 9.4.5.5.2 Rest of Middle East & Africa Chlorine Market Breakdown by End-Use Industry
- 9.5 South & Central America
  - 9.5.1 South & Central America Chlorine Market Overview
  - 9.5.2 South & Central America Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
  - 9.5.3 South & Central America Chlorine Market Breakdown by Application
    - 9.5.3.1 South & Central America Chlorine Market and Forecasts and Analysis - By Application
  - 9.5.4 South & Central America Chlorine Market Breakdown by End-Use Industry
    - 9.5.4.1 South & Central America Chlorine Market Revenue and Forecasts and Analysis - By End-Use Industry
  - 9.5.5 South & Central America Chlorine Market Revenue and Forecasts and Analysis - By Countries
    - 9.5.5.1 Chlorine Market Breakdown by Country
    - 9.5.5.2 Brazil Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
      - 9.5.5.2.1 Brazil Chlorine Market Breakdown by Application
      - 9.5.5.2.2 Brazil Chlorine Market Breakdown by End-Use Industry
    - 9.5.5.3 Argentina Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
      - 9.5.5.3.1 Argentina Chlorine Market Breakdown by Application
      - 9.5.5.3.2 Argentina Chlorine Market Breakdown by End-Use Industry
    - 9.5.5.4 Rest of South & Central America Chlorine Market Revenue and Forecasts to 2030 (US\$ Million)
      - 9.5.5.4.1 Rest of South & Central America Chlorine Market Breakdown by Application
      - 9.5.5.4.2 Rest of South & Central America Chlorine Market Breakdown by End-Use Industry

## **10. IMPACT OF COVID-19 PANDEMIC ON GLOBAL CHLORINE MARKET**

- 10.1 Pre & Post Covid-19 Impact

## **11. COMPETITIVE LANDSCAPE**

- 11.1 Heat Map Analysis By Key Players
- 11.2 Company Positioning & Concentration

## **12. INDUSTRY LANDSCAPE**

- 12.1 Overview

- 12.2 Market Initiative
- 12.3 New Product Development
- 12.4 Merger and Acquisition

## **13. COMPANY PROFILES**

### 13.1 Aditya Birla Chemicals India Ltd

- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments

### 13.2 BASF SE

- 13.2.1 Key Facts
- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments

### 13.3 Ercros SA

- 13.3.1 Key Facts
- 13.3.2 Business Description
- 13.3.3 Products and Services
- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments

### 13.4 Hanwha Solutions Corp

- 13.4.1 Key Facts
- 13.4.2 Business Description
- 13.4.3 Products and Services
- 13.4.4 Financial Overview
- 13.4.5 SWOT Analysis
- 13.4.6 Key Developments

### 13.5 INEOS Group Holdings SA

- 13.5.1 Key Facts
- 13.5.2 Business Description
- 13.5.3 Products and Services
- 13.5.4 Financial Overview

- 13.5.5 SWOT Analysis
- 13.5.6 Key Developments
- 13.6 Occidental Petroleum Corp
  - 13.6.1 Key Facts
  - 13.6.2 Business Description
  - 13.6.3 Products and Services
  - 13.6.4 Financial Overview
  - 13.6.5 SWOT Analysis
  - 13.6.6 Key Developments
- 13.7 Olin Corp
  - 13.7.1 Key Facts
  - 13.7.2 Business Description
  - 13.7.3 Products and Services
  - 13.7.4 Financial Overview
  - 13.7.5 SWOT Analysis
  - 13.7.6 Key Developments
- 13.8 Tata Chemicals Ltd
  - 13.8.1 Key Facts
  - 13.8.2 Business Description
  - 13.8.3 Products and Services
  - 13.8.4 Financial Overview
  - 13.8.5 SWOT Analysis
  - 13.8.6 Key Developments
- 13.9 Vynova Belgium NV
  - 13.9.1 Key Facts
  - 13.9.2 Business Description
  - 13.9.3 Products and Services
  - 13.9.4 Financial Overview
  - 13.9.5 SWOT Analysis
  - 13.9.6 Key Developments
- 13.10 Sumitomo Chemical Co Ltd
  - 13.10.1 Key Facts
  - 13.10.2 Business Description
  - 13.10.3 Products and Services
  - 13.10.4 Financial Overview
  - 13.10.5 SWOT Analysis
  - 13.10.6 Key Developments

## **14. APPENDIX**

## List Of Tables

### LIST OF TABLES

Table 1. Global Chlorine Market Segmentation

Table 2. List of Raw Material Suppliers in Value Chain:

Table 3. List of Manufacturers in Value Chain:

Table 4. Global Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)

Table 5. Global Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 6. Global Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 7. North America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 8. North America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 9. US Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 10. US Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 11. Canada Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 12. Canada Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 13. Mexico Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 14. Mexico Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 15. Europe Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 16. Europe Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 17. Germany Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 18. Germany Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 19. France Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 20. France Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By

## End-Use Industry

Table 21. Italy Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 22. Italy Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 23. UK Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 24. UK Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 25. Russia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 26. Russia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 27. Rest of Europe Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 28. Rest of Europe Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 29. Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 30. Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 31. Australia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 32. Australia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 33. China Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 34. China Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 35. India Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 36. India Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 37. Japan Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 38. Japan Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 39. South Korea Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 40. South Korea Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 41. Rest of Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 42. Rest of Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – End-Use Industry

Table 43. Middle East & Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 44. Middle East & Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 45. South Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 46. South Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 47. Saudi Arabia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 48. Saudi Arabia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 49. UAE Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 50. UAE Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 51. Rest of Middle East & Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)

Table 52. Rest of Middle East & Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 53. Rest of Middle East & Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 54. South & Central America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 55. South & Central America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 56. Brazil Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 57. Brazil Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 58. Argentina Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 59. Argentina Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) –

## By End-Use Industry

Table 60. Rest of South & Central America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 61. Rest of South & Central America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million) – By End-Use Industry

Table 62. Company Positioning & Concentration

## List Of Figures

### LIST OF FIGURES

- Figure 1. Global Chlorine Market Segmentation, By Geography
- Figure 2. Porter's Five Forces Analysis
- Figure 3. Ecosystem Analysis: Chlorine Market
- Figure 4. Global Chlorine Market Impact Analysis of Drivers and Restraints
- Figure 5. Global Chlorine Market Revenue (US\$ Million), 2020 – 2030
- Figure 6. Global Chlorine Market Share (%) – Application, 2022 and 2030
- Figure 7. Ethylene Dichloride/Polyvinylchloride Production Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 8. Chloromethanes Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 9. Isocyanates and Oxygenates Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 10. Solvents Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 11. Others Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 12. Global Chlorine Market Share (%) –End-Use Industry, 2022 and 2030
- Figure 13. Water Treatment Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 14. Chemicals Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 15. Pulp and Paper Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 16. Plastics Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 17. Pharmaceuticals Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 18. Others Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 19. Global Chlorine Market Breakdown by Geography, 2022 and 2030 (%)
- Figure 20. Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 21. Chlorine Market Breakdown by Application (2022 and 2030)
- Figure 22. Chlorine Market Breakdown by End-Use Industry (2022 and 2030)
- Figure 23. Chlorine Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 24. US Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 25. Canada Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 26. Mexico Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 27. Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 28. Chlorine Market Breakdown by Application (2022 and 2030)
- Figure 29. Chlorine Market Breakdown by End-Use Industry (2022 and 2030)
- Figure 30. Chlorine Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 31. Germany Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 32. France Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 33. Italy Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)



- Figure 34. UK Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 35. Russia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 36. Rest of Europe Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 37. Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 38. Asia Pacific Chlorine Market Breakdown by Application (2022 and 2023)
- Figure 39. Asia Pacific Chlorine Market Breakdown by End-Use Industry (2022 and 2023)
- Figure 40. Asia Pacific Chlorine Market Breakdown By Key Countries, 2022 And 2030 (%)
- Figure 41. Australia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 42. China Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 43. India Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 44. Japan Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 45. South Korea Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 46. Rest of Asia Pacific Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 47. Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 48. Middle East & Africa Chlorine Market Breakdown by Application (2022 and 2023)
- Figure 49. Middle East & Africa Chlorine Market Breakdown by End-Use Industry (2022 and 2023)
- Figure 50. Chlorine Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 51. South Africa Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 52. Saudi Arabia Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 53. UAE Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 54. Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 55. South & Central America Chlorine Market Breakdown by Application (2022 and 2023)
- Figure 56. South & Central America Chlorine Market Breakdown by End-Use Industry (2022 and 2023)
- Figure 57. Chlorine Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 58. Brazil Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 59. Argentina Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 60. Rest of South & Central America Chlorine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 61. Heat Map Analysis By Key Players

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