

# Crop Protection Chemicals Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global crop protection chemicals market size reached US\$ 88.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 116.5 Billion by 2028, exhibiting a growth rate (CAGR) of 4.28% during 2023-2028.

Crop protection chemicals help in managing and minimising plant diseases, weeds and other pests that damage agricultural crops. These chemicals also help in increasing and maintaining year over year crop yield. Crop protection chemicals can be mainly classified into herbicides, insecticides, and fungicides. Earlier, farmers used to control the infestation of insects and fungi by inorganic compounds such as arsenic and mercury salts. Currently, there are hundreds of chemicals available for protecting crops from getting damaged by birds, insects, rodents, bacteria, etc. The importance of crop protection chemicals have increased significantly over the last few decades catalysed by the need to enhance agricultural output and ensure adequate food availability for the growing global population.

From a population of around 7.6 Billion people today, the global population is expected to exceed 9 Billion by 2050. Moreover, the amount of arable land is also decreasing with rising urbanisation levels and more people living in cities compared to the countryside. Crop protection chemicals are expected to play a major role in increasing agriculture productivity in the coming years. These chemicals are expected to maximize agriculture yield by eliminating pests that reduce yields; resulting in more product per acre and lowering the need to convert natural areas such as woods and forests, native prairies, wetlands, plains, and other wildlife habitat into farm lands.

Crop protection chemicals such as herbicides have made no-till farming a viable option,

allowing farmers to reduce erosion by leaving the soil largely undisturbed. Herbicides can be utilised for controlling weeds in no-till crop production, removing the need for cultivation; residue from the previous crop holds the soil in place during wind and rain. Crop residue also prevents runoff of agricultural chemicals and soil that may otherwise impact aquatic habitat and fresh water supplies downstream.

Another major benefit of crop protection chemicals is the control of infectious insects. Livestock is affected by flies and various other pests that cause disease, deliver painful bites, and impose stress. Insecticides play a major role in controlling these insects, resulting in animals converting their feed into meat and milk more efficiently and thus increasing profitability.

Crop protection chemicals have also been used to reduce the spread of exotic pest populations. For instance, herbicides were found to be very effective in controlling the weed purple loosestrife in marshes and wetlands. Similarly, herbicides were also effective against Canada thistle and Johnsongrass along rights-of-way and in farm fields.

Crop Protection chemicals also provide a major role in producing high quality grain and forage. For example, insecticides protect alfalfa crops from insects and diseases which would otherwise lead to significant reduction in the protein content (an important dietary requirement for dairy cattle) and yield.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global crop protection chemicals market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product type, origin, crop type, form and mode of application.

#### Breakup by Product Type:

- Herbicides
- Fungicides
- Insecticides
- Others

Based on the product type, the market has been segmented into herbicides, fungicides, insecticides and others. Currently, herbicides dominate the market, holding the largest share.

#### Breakup by Origin:

Synthetic

Natural

Based on the origin, the market has been segmented as synthetic and natural. Synthetic crop protection chemicals currently represent a bigger segment.

#### Breakup by Crop Type:

Cereal and Grains

Fruits and Vegetables

Oilseed and Pulses

Others

Based on the crop type, the market has been segmented as cereal and grains, oilseed and pulses, fruits and vegetables, and others.

#### Breakup by Form:

Liquid

Solid

Based on the form, the market has been segmented as solid and liquid.

#### Breakup by Mode of Application:

Foliar Spray

Seed Treatment

Soil Treatment

Others

On the basis of mode of application, the market has been segmented as foliar spray, seed treatment, soil treatment and others.

#### Breakup by Region:

Asia Pacific

North America

Europe

Middle East and Africa

Latin America

Region-wise, the market has been segmented into Asia Pacific, North America, Europe, Middle East and Africa, and Latin America.

#### Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being BASF SE, Corteva Agriscience, Sumitomo Chemical Co., Ltd, Syngenta AG, Bayer Cropscience AG, FMC Corporation, Monsanto Company, Nufarm Limited and ADAMA Agricultural Solutions Ltd.

This report provides a deep insight into the global crop protection chemicals market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the crop protection chemicals industry in any manner.

#### Key Questions Answered in This Report

1. What was the size of the global crop protection chemicals market in 2022?
2. What is the expected growth rate of the global crop protection chemicals market during 2023-2028?
3. What are the key factors driving the global crop protection chemicals market?
4. What has been the impact of COVID-19 on the global crop protection chemicals market?
5. What is the breakup of the global crop protection chemicals market based on the product type?
6. What is the breakup of the global crop protection chemicals market based on the origin?
7. What is the breakup of the global crop protection chemicals market based on the crop type?
8. What is breakup of the global crop protection chemicals market based on the form?
9. What is the breakup of the global crop protection chemicals market based on the mode of application?
10. What are the key regions in the global crop protection chemicals market?

11. Who are the key companies/players in the global crop protection chemicals market?

## Contents

### 1 PREFACE

### 2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### 3 EXECUTIVE SUMMARY

### 4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

### 5 GLOBAL CROP PROTECTION CHEMICALS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Product Type
- 5.5 Market Breakup by Origin
- 5.6 Market Breakup by Crop Type
- 5.7 Market Breakup by Form
- 5.8 Market Breakup by Mode of Application
- 5.9 Market Breakup by Region
- 5.10 Market Forecast
- 5.11 SWOT Analysis
  - 5.11.1 Overview
  - 5.11.2 Strengths
  - 5.11.3 Weaknesses

- 5.11.4 Opportunities
- 5.11.5 Threats
- 5.12 Value Chain Analysis
- 5.13. Porters Five Forces Analysis
  - 5.13.1 Overview
  - 5.13.2 Bargaining Power of Buyers
  - 5.13.3 Bargaining Power of Suppliers
  - 5.13.4 Degree of Competition
  - 5.13.5 Threat of New Entrants
  - 5.13.6 Threat of Substitutes
- 5.14 Price Analysis
  - 5.14.1 Key Price Indicators
  - 5.14.2 Price Structure
  - 5.14.3 Price Trends

## **6 MARKET BREAKUP BY PRODUCT TYPE**

- 6.1 Herbicides
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Fungicides
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Insecticides
  - 6.3.1 Market Trends
  - 6.3.2 Market Forecast
- 6.4 Others
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY ORIGIN**

- 7.1 Synthetic
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Natural
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast

## **8 MARKET BREAKUP BY CROP TYPE**

### 8.1 Cereal and Grains

#### 8.1.1 Market Trends

#### 8.1.2 Market Forecast

### 8.2 Fruits and Vegetables

#### 8.2.1 Market Trends

#### 8.2.2 Market Forecast

### 8.3 Oilseed and Pulses

#### 8.3.1 Market Trends

#### 8.3.2 Market Forecast

### 8.4 Others

#### 8.4.1 Market Trends

#### 8.4.2 Market Forecast

## **9 MARKET BREAKUP BY FORM**

### 9.1 Liquid

#### 9.1.1 Market Trends

#### 9.1.2 Market Forecast

### 9.2 Solid

#### 9.2.1 Market Trends

#### 9.2.2 Market Forecast

## **10 MARKET BREAKUP BY MODE OF APPLICATION**

### 10.1 Foliar Spray

#### 10.1.1 Market Trends

#### 10.1.2 Market Forecast

### 10.2 Seed Treatment

#### 10.2.1 Market Trends

#### 10.2.2 Market Forecast

### 10.3 Soil Treatment

#### 10.3.1 Market Trends

#### 10.3.2 Market Forecast

### 10.4 Others

#### 10.4.1 Market Trends

#### 10.4.2 Market Forecast



## **11 MARKET BREAKUP BY REGION**

### 11.1 Asia Pacific

#### 11.1.1 Market Trends

#### 11.1.2 Market Forecast

### 11.2 North America

#### 11.2.1 Market Trends

#### 11.2.2 Market Forecast

### 11.3 Europe

#### 11.3.1 Market Trends

#### 11.3.2 Market Forecast

### 11.4 Middle East and Africa

#### 11.4.1 Market Trends

#### 11.4.2 Market Forecast

### 11.5 Latin America

#### 11.5.1 Market Trends

#### 11.5.2 Market Forecast

## **12 CROP PROTECTION CHEMICALS MANUFACTURING PROCESS**

### 12.1 Product Overview

### 12.2 Raw Material Requirements

### 12.3 Manufacturing Process

### 12.4 Key Success and Risk Factors

## **13 COMPETITIVE LANDSCAPE**

### 13.1 Market Structure

### 13.2 Key Players

### 13.3 Profiles of Key Players

#### 13.3.1 BASF SE

#### 13.3.2 Corteva Agriscience

#### 13.3.3 Sumitomo Chemical Co., Ltd

#### 13.3.4 Syngenta AG

#### 13.3.5 Bayer Cropscience AG

#### 13.3.6 FMC Corporation

#### 13.3.7 Monsanto Company

#### 13.3.8 Nufarm Limited

#### 13.3.9 ADAMA Agricultural Solutions Ltd.



## List Of Tables

### LIST OF TABLES

Table 1: Global: Crop Protection Chemicals Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Crop Protection Chemicals Market Forecast: Breakup by Product Type (in Million US\$), 2023-2028

Table 3: Global: Crop Protection Chemicals Market Forecast: Breakup by Origin (in Million US\$), 2023-2028

Table 4: Global: Crop Protection Chemicals Market Forecast: Breakup by Crop Type (in Million US\$), 2023-2028

Table 5: Global: Crop Protection Chemicals Market Forecast: Breakup by Form (in Million US\$), 2023-2028

Table 6: Global: Crop Protection Chemicals Market Forecast: Breakup by Mode of Application (in Million US\$), 2023-2028

Table 7: Global: Crop Protection Chemicals Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 8: Crop Protection Chemicals Manufacturing: Raw Material Requirements

Table 9: Global: Crop Protection Chemicals Market: Competitive Structure

Table 10: Global: Crop Protection Chemicals Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Crop Protection Chemicals Market: Major Drivers and Challenges

Figure 2: Global: Crop Protection Chemicals Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Crop Protection Chemicals Market: Breakup by Product Type (in %), 2022

Figure 4: Global: Crop Protection Chemicals Market: Breakup by Origin (in %), 2022

Figure 5: Global: Crop Protection Chemicals Market: Breakup by Crop Type (in %), 2022

Figure 6: Global: Crop Protection Chemicals Market: Breakup by Form (in %), 2022

Figure 7: Global: Crop Protection Chemicals Market: Breakup by Mode of Application (in %), 2022

Figure 8: Global: Crop Protection Chemicals Market: Breakup by Region (in %), 2022

Figure 9: Global: Crop Protection Chemicals Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 10: Global: Crop Protection Chemicals Market: Average Price Trends (US\$/Ton), 2017-2028

Figure 11: Crop Protection Chemicals Market: Price Structure

Figure 12: Global: Crop Protection Chemicals Industry: SWOT Analysis

Figure 13: Global: Crop Protection Chemicals Industry: Value Chain Analysis

Figure 14: Global: Crop Protection Chemicals Industry: Porter's Five Forces Analysis

Figure 15: Global: Crop Protection Chemicals (Herbicides) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Crop Protection Chemicals (Herbicides) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Crop Protection Chemicals (Fungicides) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Crop Protection Chemicals (Fungicides) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Crop Protection Chemicals (Insecticides) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Crop Protection Chemicals (Insecticides) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Crop Protection Chemicals (Other Product Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Crop Protection Chemicals (Other Product Types) Market Forecast:

Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Crop Protection Chemicals (Synthetic) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Crop Protection Chemicals (Synthetic) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Crop Protection Chemicals (Natural) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Crop Protection Chemicals (Natural) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Crop Protection Chemicals (Cereal and Grains) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Crop Protection Chemicals (Cereal and Grains) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Crop Protection Chemicals (Fruits and Vegetables) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Crop Protection Chemicals (Fruits and Vegetables) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Crop Protection Chemicals (Oilseed and Pulses) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Crop Protection Chemicals (Oilseed and Pulses) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Crop Protection Chemicals (Other Crop Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Crop Protection Chemicals (Other Crop Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Crop Protection Chemicals (Liquid) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Crop Protection Chemicals (Liquid) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Crop Protection Chemicals (Solid) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Crop Protection Chemicals (Solid) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Global: Crop Protection Chemicals (Application by Foliar Spray) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Global: Crop Protection Chemicals (Application by Foliar Spray) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Global: Crop Protection Chemicals (Application by Seed Treatment) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Global: Crop Protection Chemicals (Application by Seed Treatment) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Global: Crop Protection Chemicals (Application by Soil Treatment) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Global: Crop Protection Chemicals (Application by Soil Treatment) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Global: Crop Protection Chemicals (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Global: Crop Protection Chemicals (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Asia Pacific: Crop Protection Chemicals Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Asia Pacific: Crop Protection Chemicals Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: North America: Crop Protection Chemicals Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: North America: Crop Protection Chemicals Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Europe: Crop Protection Chemicals Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Europe: Crop Protection Chemicals Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Middle East and Africa: Crop Protection Chemicals Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Middle East and Africa: Crop Protection Chemicals Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Latin America: Crop Protection Chemicals Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Latin America: Crop Protection Chemicals Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Crop Protection Chemicals Manufacturing: Detailed Process Flow

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