

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

<https://marketpublishers.com/r/B2AF3419286EN.html>

Date: September 2023

Pages: 146

Price: US\$ 2,499.00 (Single User License)

ID: B2AF3419286EN

## Abstracts

### Market Overview:

The global bioherbicides market size reached US\$ 2.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.0 Billion by 2028, exhibiting a growth rate (CAGR) of 12.8% during 2023-2028.

Herbicides are a type of pesticides used for killing unwanted plants, also known as weeds, which consume water, sunlight, nutrients and space meant for crops. In recent years, farmers have started using bioherbicides which are bio-based weed control agents made from microbes and certain types of insects. They are environment-friendly and incur a lesser cost than conventional herbicides. Other than this, bioherbicides do not have a negative effect on crops or human health. With the emerging trend of organic farming, bioherbicides are gaining immense popularity across the globe.

### Global Bioherbicides Market Drivers:

Over the past few years, the sales of synthetic herbicides have witnessed a decline as they have been shown to harm the beneficial flora in the soil. These chemicals have also been linked to an increased risk of cancer, birth defects and respiratory problems. In line with this, the governments of several nations have introduced strict regulations and awareness programs to encourage organic farming. This has led to a rise in the overall production of bioherbicides across the globe. Moreover, advances in genetic engineering have enabled the development of new-age bioherbicides which act against weeds in a more effective way. Apart from this, the rapid expansion of the food and beverage sector has also contributed to the demand for better-quality bioherbicides.

### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global bioherbicides market report, along with forecasts at the global and regional levels from 2023-2028. Our report has categorized the market based on crop type, source, mode of application, mode of action and formulation.

### Breakup by Crop Type:

Agricultural Crops

Non-Agricultural Crops

Based on the crop type, the market has been segmented into agricultural crops and non-agricultural crops. Agricultural crops currently have a larger share.

### Breakup by Source:

Microbial

Biochemical

Others

Based on the source, the market has been segmented into microbial, biochemical and others.

### Breakup by Mode of Application:

Seed Treatment

Soil Application

Foliar

Post-Harvest

Based on the mode of application, the market has been segmented into seed treatment, soil application, foliar and post-harvest.

### Breakup by Mode of Action:

MOA involving Photosynthesis

MOA Targeting Enzymes

Others

Based on the mode of action, the market has been segmented into MOA involving photosynthesis, MOA targeting enzymes and others.

#### Breakup by Formulation:

Granular  
Liquid  
Others

Based on the formulation, the market has been segmented into granular, liquid 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. Amongst these, Asia Pacific is the biggest market, accounting for the majority of the global share.

#### Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being Marrone Bio Innovations Inc., Emery Oleochemicals, Deer Creek Holdings, Verdesian Life Sciences, Certified Organics Australia PTY Ltd, Ecopesticides International, Inc., Special Biochem Pvt. Ltd, MycoLogic, Hindustan Bio-Tech, Bioherbicides Australia PTY Ltd. and Engage Agro USA.

#### Key Questions Answered in This Report

1. What was the size of the global bioherbicides market in 2022?
2. What is the expected growth rate of the global bioherbicides market during 2023-2028?
3. What are the key factors driving the global bioherbicides market?
4. What has been the impact of COVID-19 on the global bioherbicides market?
5. What is the breakup of the global bioherbicides market based on the crop type?

6. What is the breakup of the global bioherbicides market based on the source?
7. What is the breakup of the global bioherbicides market based on the mode of application?
8. What is the breakup of the global bioherbicides market based on the mode of action?
9. What is the breakup of the global bioherbicides market based on the formulation?
10. What are the key regions in the global bioherbicides market?
11. Who are the key players/companies in the global bioherbicides 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 BIOHERBICIDES MARKET**

#### 5.1 Market Overview

#### 5.2 Market Performance

#### 5.3 Impact of COVID-19

#### 5.4 Market Breakup by Crop Type

#### 5.5 Market Breakup by Source

#### 5.6 Market Breakup by Mode of Application

#### 5.7 Market Breakup by Mode of Action

#### 5.8 Market Breakup by Formulation

#### 5.9 Market Breakup by Region

#### 5.10 Market Forecast

### **6 MARKET BREAKUP BY CROP TYPE**

#### 6.1 Agricultural Crops

- 6.1.1Market Trends
- 6.1.2Market Forecast
- 6.2Non-Agricultural Crops
  - 6.2.1Market Trends
  - 6.2.2Market Forecast

## **7 MARKET BREAKUP BY SOURCE**

- 7.1Microbial
  - 7.1.1Market Trends
  - 7.1.2Market Forecast
- 7.2Biochemical
  - 7.2.1Market Trends
  - 7.2.2Market Forecast
- 7.3Others
  - 7.3.1Market Trends
  - 7.3.2Market Forecast

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

- 8.1Seed Treatment
  - 8.1.1Market Trends
  - 8.1.2Market Forecast
- 8.2Soil Application
  - 8.2.1Market Trends
  - 8.2.2Market Forecast
- 8.3Foliar
  - 8.3.1Market Trends
  - 8.3.2Market Forecast
- 8.4Post-Harvest
  - 8.4.1Market Trends
  - 8.4.2Market Forecast

## **9 MARKET BREAKUP BY MODE OF ACTION**

- 9.1 MOA involving Photosynthesis
  - 9.1.1Market Trends
  - 9.1.2Market Forecast
- 9.2MOA Targeting Enzymes

- 9.2.1Market Trends
- 9.2.2Market Forecast
- 9.3Others
  - 9.3.1Market Trends
  - 9.3.2Market Forecast

## **10 MARKET BREAKUP BY FORMULATION**

- 10.1Granular
  - 10.1.1Market Trends
  - 10.1.2Market Forecast
- 10.2Liquid
  - 10.2.1Market Trends
  - 10.2.2Market Forecast
- 10.3Others
  - 10.3.1Market Trends
  - 10.3.2Market Forecast

## **11 MARKET BREAKUP BY REGION**

- 11.1Asia Pacific
  - 11.1.1Market Trends
  - 11.1.2Market Forecast
- 11.2North America
  - 11.2.1Market Trends
  - 11.2.2Market Forecast
- 11.3Europe
  - 11.3.1Market Trends
  - 11.3.2Market Forecast
- 11.4Middle East and Africa
  - 11.4.1Market Trends
  - 11.4.2Market Forecast
- 11.5Latin America
  - 11.5.1Market Trends
  - 11.5.2Market Forecast

## **12 GLOBAL BIOHERBICIDES INDUSTRY: SWOT ANALYSIS**

- 12.1Overview

- 12.2Strengths
- 12.3Weaknesses
- 12.4Opportunities
- 12.5Threats

## **13 GLOBAL BIOHERBICIDES INDUSTRY: VALUE CHAIN ANALYSIS**

- 13.1Overview
- 13.2Research and Development
- 13.3Raw Material Procurement
- 13.4Manufacturing
- 13.5Marketing
- 13.6Distribution
- 13.7End-Use

## **14 GLOBAL BIOHERBICIDES INDUSTRY: PORTERS FIVE FORCES ANALYSIS**

- 14.1 Overview
- 14.2 Bargaining Power of Buyers
- 14.3 Bargaining Power of Suppliers
- 14.4 Degree of Competition
- 14.5 Threat of New Entrants
- 14.6 Threat of Substitutes

## **15 GLOBAL BIOHERBICIDES INDUSTRY: PRICE ANALYSIS**

## **16 BIOHERBICIDES MANUFACTURING PROCESS**

- 16.1Product Overview
- 16.2Raw Material Requirements
- 16.3Manufacturing Process
- 16.4Key Success and Risk Factors

## **17 COMPETITIVE LANDSCAPE**

- 17.1Market Structure
- 17.2Key Players
- 17.3Profiles of Key Players
  - 17.3.1Marrone Bio Innovations Inc.



- 17.3.2 Emery Oleochemicals
- 17.3.3 Deer Creek Holdings
- 17.3.4 Verdesian Life Sciences
- 17.3.5 Certified Organics Australia PTY Ltd
- 17.3.6 Ecopesticides International, Inc.
- 17.3.7 Special Biochem Pvt. Ltd
- 17.3.8 MycoLogic
- 17.3.9 Hindustan Bio-Tech
- 17.3.10 Bioherbicides Australia PTY Ltd.
- 17.3.11 Engage Agro USA

## List Of Tables

### LIST OF TABLES

Table 1: Global: Bioherbicides Market: Key Industry Highlights, 2022 and 2028

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

Table 3: Global: Bioherbicides Market Forecast: Breakup by Source (in Million US\$), 2023-2028

Table 4: Global: Bioherbicides Market Forecast: Breakup by Mode of Application (in Million US\$), 2023-2028

Table 5: Global: Bioherbicides Market Forecast: Breakup by Mode of Action (in Million US\$), 2023-2028

Table 6: Global: Bioherbicides Market Forecast: Breakup by Formulation (in Million US\$), 2023-2028

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

Table 8: Bioherbicides: Raw Material Requirements

Table 9: Global: Bioherbicides Market Structure

Table 10: Global: Bioherbicides Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Bioherbicides Market: Major Drivers and Challenges

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

Figure 3: Global: Bioherbicides Market: Breakup by Crop Type (in %), 2022

Figure 4: Global: Bioherbicides Market: Breakup by Source (in %), 2022

Figure 5: Global: Bioherbicides Market: Breakup by Mode of Application (in %), 2022

Figure 6: Global: Bioherbicides Market: Breakup by Mode of Action (in %), 2022

Figure 7: Global: Bioherbicides Market: Breakup by Formulation (in %), 2022

Figure 8: Global: Bioherbicides Market: Breakup by Region (in %), 2022

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

Figure 10: Global: Bioherbicides Industry: SWOT Analysis

Figure 11: Global: Bioherbicides Industry: Value Chain Analysis

Figure 12: Global: Bioherbicides Industry: Porter's Five Forces Analysis

Figure 13: Global: Bioherbicides (Agricultural Crops) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Bioherbicides (Agricultural Crops) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Bioherbicides (Non-Agricultural Crops) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Bioherbicides (Non-Agricultural Crops) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Bioherbicides (Microbial) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Bioherbicides (Microbial) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Bioherbicides (Biochemical) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Bioherbicides (Biochemical) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Bioherbicides (Other Sources) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Bioherbicides (Other Sources) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Bioherbicides (Seed Treatment) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Bioherbicides (Seed Treatment) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Bioherbicides (Soil Application) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Bioherbicides (Soil Application) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Bioherbicides (Foliar) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Bioherbicides (Foliar) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Bioherbicides (Post-Harvest) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Bioherbicides (Post-Harvest) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Bioherbicides (MOA involving Photosynthesis) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Bioherbicides (MOA involving Photosynthesis) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Bioherbicides (MOA Targeting Enzymes) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Bioherbicides (MOA Targeting Enzymes) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Bioherbicides (Others) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Bioherbicides (Others) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Bioherbicides (Granular) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Bioherbicides (Granular) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Global: Bioherbicides (Liquid) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Global: Bioherbicides (Liquid) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Global: Bioherbicides (Other Formulations) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Global: Bioherbicides (Other Formulations) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Asia Pacific: Bioherbicides Market: Sales Value (in Million US\$), 2017 &

2022

Figure 44: Asia Pacific: Bioherbicides Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: North America: Bioherbicides Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: North America: Bioherbicides Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Europe: Bioherbicides Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Europe: Bioherbicides Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Middle East and Africa: Bioherbicides Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Middle East and Africa: Bioherbicides Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Latin America: Bioherbicides Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Latin America: Bioherbicides Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Bioherbicides Manufacturing: Process Flow

## I would like to order

Product name: Bioherbicides Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/B2AF3419286EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B2AF3419286EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

