

# **Boron Fertilizers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Source (Borax, Boric Acid, Others), By Application (Fruits & Vegetables, Cereals & Grains, Oilseeds & Pulses, Others), By Region and Competition, 2019-2029F**

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## **Abstracts**

Global Boron Fertilizers Market was valued at USD 2.68 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 4.85% through 2029. Boron, an essential micronutrient for plants, plays a vital role in enhancing their overall health and yield. The increasing awareness about soil health and the significance of micronutrients in agriculture has fueled the growth of the boron fertilizers market. As the global population continues to grow, the demand for high-yield crops is on the rise, further contributing to the market surge.

However, despite the promising growth prospects, the market faces certain restraints. The overuse of boron fertilizers can potentially lead to toxicity in plants, hindering market growth. Nevertheless, advancements in technology and the development of controlled-release fertilizers aim to address this issue, providing new opportunities for market expansion.

In conclusion, the global boron fertilizers market is on a robust growth trajectory. Despite the challenges posed by potential toxicity, the market is expected to grow substantially, driven by the increasing demand for high-yield crops and the growing awareness about soil health. The need for improved agricultural practices, in line with the rising global population, will likely keep the boron fertilizers market on its upward path, opening avenues for further growth and development.

## Key Market Drivers

### Growth in Agriculture Industry

The substantial growth of the boron fertilizers market can be attributed to key drivers that are shaping the industry landscape. One of the primary drivers is the rising demand for high-yield crops, driven by the ever-increasing global population and the need for sustainable food production. As the world population continues to grow, there is an inherent need to maximize agricultural productivity, and boron fertilizers play a crucial role in achieving this goal.

Furthermore, there is an increased awareness about the importance of soil health in driving optimal crop growth and yield. Farmers and agricultural experts alike are recognizing the significance of maintaining a healthy soil ecosystem, as it directly impacts the quality and productivity of crops. Micronutrient fertilizers, such as boron fertilizers, have been proven to enhance soil health by providing essential nutrients that are often lacking in the soil.

In particular, boron as a micronutrient fertilizer has gained significant traction in the agriculture industry. Its application has shown promising results in improving crop quality and increasing yields. By addressing the specific nutritional needs of crops, boron fertilizers contribute to the overall enhancement of agricultural practices and ensure sustainable food production.

The market growth is further fueled by the growing awareness among farmers and agricultural stakeholders about the role of micronutrients in optimizing crop performance. As more research and knowledge are generated in this field, the demand for boron fertilizers is anticipated to rise steadily.

In conclusion, the agriculture industry's growth acts as a primary driver for the global boron fertilizers market. With the increasing global population, there is a pressing need for improved agricultural practices to meet the growing food demand. The awareness surrounding the significance of micronutrients in agriculture, coupled with the demand for high-yield crops, is expected to propel the market's growth in the coming years.

### Rise in Commercial Farming

Commercial farming, characterized by large-scale production of crops for sale, has

been expanding rapidly across the globe. The need to meet the rising food demand from the growing global population has significantly contributed to this expansion. As commercial farming grows, so does the demand for boron fertilizers.

Boron, a vital micronutrient, plays a crucial role in ensuring optimal plant health and maximizing crop yield. It aids in various essential processes such as cell division, protein formation, and seed development, among others. By providing plants with the necessary boron, farmers can promote healthier growth and development, leading to improved productivity and profitability.

In recent years, commercial farmers have increasingly recognized the importance of boron in enhancing crop productivity. This growing awareness has sparked a surge in the demand for boron fertilizers as farmers strive to achieve higher yields and meet the ever-increasing food demands of the market.

Not only does boron contribute to higher crop yields, but it also plays a significant role in improving the quality of the produce. Commercial farmers understand that better quality crops not only fetch higher prices in the market but also cater to the rising consumer demand for high-quality food products. By ensuring an adequate supply of boron to their crops, farmers can enhance the nutritional value, taste, and appearance of their produce, thereby meeting the evolving preferences of consumers.

As the global population continues to grow, commercial farming and the demand for boron fertilizers are expected to rise further. It is crucial for farmers to understand the importance of boron in optimizing crop productivity and quality, as it can be a game-changer in the competitive agricultural industry.

In conclusion, boron fertilizers have become increasingly sought after in commercial farming due to their essential role in enhancing crop yield, improving produce quality, and meeting the demands of a growing global population. By recognizing the significance of boron and incorporating it into their farming practices, commercial farmers can unlock the full potential of their crops and build a thriving agricultural business for the future.

## Key Market Challenges

### Volatility in Price of Raw Materials

Price volatility refers to the degree of variation in the prices of goods and services over

a specific period. In the context of the boron fertilizers market, this volatility primarily affects the cost of raw materials such as boron.

Price volatility directly impacts the production costs of boron fertilizers. As the cost of raw materials fluctuates, so does the cost of producing the fertilizers. This factor can lead to unstable pricing strategies, which can affect the market's overall profitability, during periods of high volatility and during periods of high volatility, manufacturers may sustainability. For example, during periods of high volatility, manufacturers may find it challenging to accurately forecast their production costs, resulting in potential financial risks.

Moreover, the volatile prices can discourage manufacturers from investing in the production of boron fertilizers, potentially leading to supply shortages. For instance, the global borax market, a significant source of boron, has been facing a lack of sufficient supply due to a decline in production. This shortage not only impacts the availability of boron fertilizers but also creates a ripple effect on the agricultural sector.

Additionally, volatility can also impact the end-users – the farmers. Unstable prices can lead to uncertainty, making it difficult for farmers to plan their expenses and manage their finances effectively. This situation can ultimately affect the demand for boron fertilizers. Farmers might be hesitant to invest in expensive fertilizers if they are uncertain about future prices, leading to potential yield losses and reduced agricultural productivity.

## Key Market Trends

### Growing Focus on Crop Yield and Quality

As the world's population continues to grow at a rapid pace, the demand for food is also on the rise. This increasing demand puts immense pressure on the agricultural sector to not only meet the escalating food requirements but also to ensure that the quality of the agricultural products is maintained. Consumers nowadays are more conscious and discerning, demanding high-quality produce that is not only abundant but also nutritious and safe.

In order to address these challenges, there has been a growing focus on improving both the quantity and quality of crop yield. One micronutrient that has proven to play a crucial role in achieving this goal is boron. Boron is an essential element that contributes significantly to plant development, aiding in various processes such as cell division,

protein formation, and seed development. By incorporating boron fertilizers into agricultural practices, farmers can enhance both the yield and quality of their crops.

The market for water-soluble boron fertilizers has experienced remarkable growth in recent years, primarily due to the increasing global demand for high-quality agricultural produce. This trend is further supported by the adoption of precision farming techniques, which involve the precise application of inputs like fertilizers based on the specific needs of different crop areas. The use of boron fertilizers in precision farming has proven to be highly effective in optimizing crop growth and maximizing yields.

With the ever-increasing need to feed a growing population, the importance of sustainable and efficient agricultural practices cannot be overstated. The incorporation of boron fertilizers in crop cultivation is a significant step towards meeting the rising demand for high-quality food while ensuring the long-term productivity and sustainability of the agricultural sector.

### Segmental Insights

#### Source Insights

Based on the category of source, the boric acid segment emerged as the dominant player in the global market for boron fertilizers in 2023. One of the primary reasons for the dominance of boric acid in the boron fertilizers market is its exceptional effectiveness as an insecticide. In the realm of agriculture, boric acid is widely employed to combat and eradicate insects that can significantly impede plant growth. By integrating boric acid into their fertilizers, farmers not only shield their crops from harmful pests but also ensure the provision of the essential micronutrient boron.

Moreover, boric acid and sodium borate salts possess remarkable herbicidal qualities that induce desiccation, effectively eliminating unwanted plant growth. Additionally, they exhibit notable fungicidal activity by inhibiting the growth of fungi. These exceptional properties render boric acid a versatile and multifaceted tool in the field of agriculture, thereby contributing to its soaring popularity within the boron fertilizers market.

#### Application Insights

The fruits vegetables segment is projected to experience rapid growth during the forecast period. The consumption of fruits and vegetables has witnessed a significant and sustained increase on a global scale. This surge in demand can be attributed to the

growing health awareness among consumers, who are increasingly recognizing the numerous benefits of incorporating these nutritious foods into their diets.

Fruits and vegetables, unlike other crops such as grains, are highly perishable and require frequent replacement. This necessitates a more extensive and continuous crop plantation to meet the ever-rising demand. Consequently, the use of boron fertilizers has become increasingly prevalent in the agricultural industry.

Boron, a vital micronutrient, plays a critical role in the production and quality of fruits and vegetables. Its presence helps stimulate and enhance various physiological processes, including flower production and retention, pollen tube elongation, and fruit and seed development. This ultimately leads to improved yield and enhanced quality of the final harvest.

Given its proven effectiveness, boron fertilizers have become an integral component of modern cultivation practices for fruits and vegetables. By providing the necessary nutrients and promoting optimal growth conditions, these fertilizers contribute significantly to maximizing both the quantity and quality of the final produce.

## Regional Insights

Asia Pacific emerged as the dominant player in the Global Boron Fertilizers Market in 2023, holding the largest market share in terms of value. The Asia Pacific region is home to some of the most populous countries in the world, including China and India. Agriculture plays a critical role in the economy of these countries, given their vast agricultural land and a large number of farmers. As a result, there is a significant demand for fertilizers, particularly boron fertilizers.

In recent years, the region has witnessed a growing need for high-yield crop production. With the population continuing to increase, there is an urgent requirement to enhance crop yield to meet the escalating food demand. This is where boron fertilizers come into play, known for their ability to increase both crop yield and quality. Consequently, there is a high demand for these fertilizers in the Asia Pacific region.

Furthermore, rapid urbanization in the Asia Pacific has resulted in a substantial decrease in arable land. This situation has created a pressing need for more efficient land use and higher crop yields per unit area. As a result, the demand for effective fertilizers, such as boron fertilizers, is further heightened.

The increasing demand for boron fertilizers in the Asia Pacific region can be attributed to its unique combination of factors - the critical role of agriculture in the economy, the need for high-yield crop production, and the challenge of urbanization reducing arable land. By addressing these challenges and providing effective solutions, boron fertilizers have become an integral part of enhancing agricultural productivity in this region.

### Key Market Players

DuPont de Nemours Inc

Ineos Group Ltd

INVISTA Sarl

NOVA Chemicals Corporation

Valspar Corporation

Mitsui Chemicals, Inc.

EVAL Europe N.V

Honeywell International, Inc.

The Dow Chemical Company

Kuraray Co., Ltd

### Report Scope:

In this report, the Global Boron Fertilizers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Boron Fertilizers Market,By Source:

oBorax

oBoric Acid



oOthers

Boron Fertilizers Market,By Application:

oFruits Vegetables

oCereals Grains

oOilseeds Pulses

oOthers

Boron Fertilizers Market, By Region:

oNorth America

United States

Canada

Mexico

oEurope

France

United Kingdom

Italy

Germany

Spain

oAsia Pacific

China



India

Japan

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Boron Fertilizers Market.

Available Customizations:

Global Boron Fertilizers Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1.PRODUCT OVERVIEW**

- 1.1.Market Definition
- 1.2.Scope of the Market
  - 1.2.1.Markets Covered
  - 1.2.2.Years Considered for Study
  - 1.2.3.Key Market Segmentations

### **2.RESEARCH METHODOLOGY**

- 2.1.Objective of the Study
- 2.2.Baseline Methodology
- 2.3.Key Industry Partners
- 2.4.Major Association and Secondary Sources
- 2.5.Forecasting Methodology
- 2.6.Data Triangulation Validation
- 2.7.Assumptions and Limitations

### **3.EXECUTIVE SUMMARY**

- 3.1.Overview of the Market
- 3.2.Overview of Key Market Segmentations
- 3.3.Overview of Key Market Players
- 3.4.Overview of Key Regions/Countries
- 3.5.Overview of Market Drivers, Challenges, Trends

### **4.IMPACT OF COVID-19 ON GLOBAL BORON FERTILIZERS MARKET**

### **5.GLOBAL BORON FERTILIZERS MARKET OUTLOOK**

- 5.1.Market Size Forecast
  - 5.1.1.By Value
- 5.2.Market Share Forecast
  - 5.2.1.By Source (Borax, Boric Acid, Others)
  - 5.2.2.By Application (Fruits Vegetables, Cereals Grains, Oilseeds Pulses, Others)
  - 5.2.3.By Region
  - 5.2.4.By Company (2023)

### 5.3.Market Map

## 6.ASIA PACIFIC BORON FERTILIZERS MARKET OUTLOOK

### 6.1.Market Size Forecast

#### 6.1.1.By Value

### 6.2.Market Share Forecast

#### 6.2.1.By Source

#### 6.2.2.By Application

#### 6.2.3.By Country

### 6.3.Asia Pacific: Country Analysis

#### 6.3.1.China Boron Fertilizers Market Outlook

##### 6.3.1.1.Market Size Forecast

###### 6.3.1.1.1.By Value

##### 6.3.1.2.Market Share Forecast

###### 6.3.1.2.1.By Source

###### 6.3.1.2.2.By Application

#### 6.3.2.India Boron Fertilizers Market Outlook

##### 6.3.2.1.Market Size Forecast

###### 6.3.2.1.1.By Value

##### 6.3.2.2.Market Share Forecast

###### 6.3.2.2.1.By Source

###### 6.3.2.2.2.By Application

#### 6.3.3.Australia Boron Fertilizers Market Outlook

##### 6.3.3.1.Market Size Forecast

###### 6.3.3.1.1.By Value

##### 6.3.3.2.Market Share Forecast

###### 6.3.3.2.1.By Source

###### 6.3.3.2.2.By Application

#### 6.3.4.Japan Boron Fertilizers Market Outlook

##### 6.3.4.1.Market Size Forecast

###### 6.3.4.1.1.By Value

##### 6.3.4.2.Market Share Forecast

###### 6.3.4.2.1.By Source

###### 6.3.4.2.2.By Application

#### 6.3.5.South Korea Boron Fertilizers Market Outlook

##### 6.3.5.1.Market Size Forecast

###### 6.3.5.1.1.By Value

##### 6.3.5.2.Market Share Forecast

6.3.5.2.1.By Source

6.3.5.2.2.By Application

## **7.EUROPE BORON FERTILIZERS MARKET OUTLOOK**

7.1.Market Size Forecast

7.1.1.By Value

7.2.Market Share Forecast

7.2.1.By Source

7.2.2.By Application

7.2.3.By Country

7.3.Europe: Country Analysis

7.3.1.France Boron Fertilizers Market Outlook

7.3.1.1.Market Size Forecast

7.3.1.1.1.By Value

7.3.1.2.Market Share Forecast

7.3.1.2.1.By Source

7.3.1.2.2.By Application

7.3.2.Germany Boron Fertilizers Market Outlook

7.3.2.1.Market Size Forecast

7.3.2.1.1.By Value

7.3.2.2.Market Share Forecast

7.3.2.2.1.By Source

7.3.2.2.2.By Application

7.3.3.Spain Boron Fertilizers Market Outlook

7.3.3.1.Market Size Forecast

7.3.3.1.1.By Value

7.3.3.2.Market Share Forecast

7.3.3.2.1.By Source

7.3.3.2.2.By Application

7.3.4.Italy Boron Fertilizers Market Outlook

7.3.4.1.Market Size Forecast

7.3.4.1.1.By Value

7.3.4.2.Market Share Forecast

7.3.4.2.1.By Source

7.3.4.2.2.By Application

7.3.5.United Kingdom Boron Fertilizers Market Outlook

7.3.5.1.Market Size Forecast

7.3.5.1.1.By Value

#### 7.3.5.2.Market Share Forecast

##### 7.3.5.2.1.By Source

##### 7.3.5.2.2.By Application

## **8.NORTH AMERICA BORON FERTILIZERS MARKET OUTLOOK**

### 8.1.Market Size Forecast

#### 8.1.1.By Value

### 8.2.Market Share Forecast

#### 8.2.1.By Source

#### 8.2.2.By Application

#### 8.2.3.By Country

### 8.3.North America: Country Analysis

#### 8.3.1.United States Boron Fertilizers Market Outlook

##### 8.3.1.1.Market Size Forecast

###### 8.3.1.1.1.By Value

##### 8.3.1.2.Market Share Forecast

###### 8.3.1.2.1.By Source

###### 8.3.1.2.2.By Application

#### 8.3.2.Mexico Boron Fertilizers Market Outlook

##### 8.3.2.1.Market Size Forecast

###### 8.3.2.1.1.By Value

##### 8.3.2.2.Market Share Forecast

###### 8.3.2.2.1.By Source

###### 8.3.2.2.2.By Application

#### 8.3.3.Canada Boron Fertilizers Market Outlook

##### 8.3.3.1.Market Size Forecast

###### 8.3.3.1.1.By Value

##### 8.3.3.2.Market Share Forecast

###### 8.3.3.2.1.By Source

###### 8.3.3.2.2.By Application

## **9.SOUTH AMERICA BORON FERTILIZERS MARKET OUTLOOK**

### 9.1.Market Size Forecast

#### 9.1.1.By Value

### 9.2.Market Share Forecast

#### 9.2.1.By Source

#### 9.2.2.By Application

### 9.2.3.By Country

## 9.3.South America: Country Analysis

### 9.3.1.Brazil Boron Fertilizers Market Outlook

#### 9.3.1.1.Market Size Forecast

##### 9.3.1.1.1.By Value

#### 9.3.1.2.Market Share Forecast

##### 9.3.1.2.1.By Source

##### 9.3.1.2.2.By Application

### 9.3.2.Argentina Boron Fertilizers Market Outlook

#### 9.3.2.1.Market Size Forecast

##### 9.3.2.1.1.By Value

#### 9.3.2.2.Market Share Forecast

##### 9.3.2.2.1.By Source

##### 9.3.2.2.2.By Application

### 9.3.3.Colombia Boron Fertilizers Market Outlook

#### 9.3.3.1.Market Size Forecast

##### 9.3.3.1.1.By Value

#### 9.3.3.2.Market Share Forecast

##### 9.3.3.2.1.By Source

##### 9.3.3.2.2.By Application

## 10.MIDDLE EAST AND AFRICA BORON FERTILIZERS MARKET OUTLOOK

### 10.1.Market Size Forecast

#### 10.1.1.By Value

### 10.2.Market Share Forecast

#### 10.2.1.By Source

#### 10.2.2.By Application

#### 10.2.3.By Country

### 10.3.MEA: Country Analysis

#### 10.3.1.South Africa Boron Fertilizers Market Outlook

##### 10.3.1.1.Market Size Forecast

##### 10.3.1.1.1.By Value

##### 10.3.1.2.Market Share Forecast

##### 10.3.1.2.1.By Source

##### 10.3.1.2.2.By Application

#### 10.3.2.Saudi Arabia Boron Fertilizers Market Outlook

##### 10.3.2.1.Market Size Forecast

##### 10.3.2.1.1.By Value



#### 10.3.2.2.Market Share Forecast

##### 10.3.2.2.1.By Source

##### 10.3.2.2.2.By Application

#### 10.3.3.UAE Boron Fertilizers Market Outlook

##### 10.3.3.1.Market Size Forecast

##### 10.3.3.1.1.By Value

##### 10.3.3.2.Market Share Forecast

##### 10.3.3.2.1.By Source

##### 10.3.3.2.2.By Application

## **11.MARKET DYNAMICS**

### 11.1.Drivers

### 11.2.Challenges

## **12.MARKET TRENDS DEVELOPMENTS**

### 12.1.Recent Developments

### 12.2.Product Launches

### 12.3.Mergers Acquisitions

## **13.GLOBAL BORON FERTILIZERS MARKET: SWOT ANALYSIS**

## **14.PORTER'S FIVE FORCES ANALYSIS**

### 14.1.Competition in the Industry

### 14.2.Potential of New Entrants

### 14.3.Power of Suppliers

### 14.4.Power of Customers

### 14.5.Threat of Substitute Product

## **15.PESTLE ANALYSIS**

## **16.COMPETITIVE LANDSCAPE**

### 16.1.DuPont de Nemours Inc

#### 16.1.1.Business Overview

#### 16.1.2.Company Snapshot

#### 16.1.3.Products Services

- 16.1.4.Financials (As Reported)
- 16.1.5.Recent Developments
- 16.2.Ineos Group Ltd
- 16.3.INVISTA Sarl
- 16.4.NOVA Chemicals Corporation
- 16.5.Valspar Corporation
- 16.6.Mitsui Chemicals, Inc.
- 16.7.EVAL Europe N.V
- 16.8.Honeywell International, Inc.
- 16.9.The Dow Chemical Company
- 16.10.Kuraray Co., Ltd

## **17.STRATEGIC RECOMMENDATIONS**

## **18. ABOUT US DISCLAIMER**

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