

Global Biogenic Silicon Enriched Crop Fortification Fertilizer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Biogenic Silicon Enriched Crop Fortification Fertilizer market size was valued at US\$ 172 million in 2025 and is forecast to a readjusted size of US\$ 383 million by 2032 with a CAGR of 12.1% during review period.

Biogenic silicon enriched crop fortification fertilizers are specialty fertilizer products formulated to deliver plant-available silicon (Si) derived from biogenic sources through processes that convert silicon into bioavailable forms (primarily monosilicic acid) for crop nutrition and fortification. In 2025, global biogenic silicon enriched crop fortification fertilizer production reached approximately 66,952 ton, with an average global market price of around USD 2,500 per ton. A factory gross profit of USD 625 per ton with 25% gross margin. A single line full machine capacity production is around 500 ton per line per year. The upstream is dependent on biogenic silica, stabilisation agents and packaging. The downstream demand is concentrated in horticultural crops, cereals and oilseeds. Biogenic silicon fertilizers is sprayed to the rice cultivation to Strengthened stems, reduced lodging and improved grain yield. China and India market are driven by large rice producer and high demand. Brazil market is driven by expanding soybean and corn area.

This report is a detailed and comprehensive analysis for global Biogenic Silicon Enriched Crop Fortification Fertilizer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along

with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Biogenic Silicon Enriched Crop Fortification Fertilizer market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Biogenic Silicon Enriched Crop Fortification Fertilizer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Biogenic Silicon Enriched Crop Fortification Fertilizer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Biogenic Silicon Enriched Crop Fortification Fertilizer market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Biogenic Silicon Enriched Crop Fortification Fertilizer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Biogenic Silicon Enriched Crop Fortification Fertilizer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nutrien Ltd., Yara International, ICL Group, Haifa Group, EuroChem Group, UPL Ltd., Mosaic Company, Bayer Crop Science, BASF SE, Biolchim S.p.A., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Biogenic Silicon Enriched Crop Fortification Fertilizer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plant Based Silica

Diatomaceous Earth

Microbial Assisted Silicon Release

Stabilized Orthosilicic Acid

Others

Market segment by Application Method

Soil Application

Foliar Spray

Drip Irrigation

Seed Priming

Others

Market segment by pH

Alkaline (> pH 9.0)

Neutral (pH 6.0-9.0)

Acidic (pH %oO% 6.0)

Market segment by Application

Horticultural Nurseries

Commercial Farming

Residential Gardening

Organic and Sustainable Agriculture

Others

Major players covered

Nutrien Ltd.

Yara International

ICL Group

Haifa Group

EuroChem Group

UPL Ltd.

Mosaic Company

Bayer Crop Science

BASF SE

Biolchim S.p.A.

Corteva Inc.

Certis Biologicals

Agripower

PlantoSys Nederland

NCS Green Earth Pvt Ltd

Orion FT

Eutrema

Leading Bio-Agriculture

Hebei Mengbang

Green Power

Quytech

Shandong Lvfang Fertilizer

Sichuan Xingdaheng Technology

Zhongnong Lvhe Silicon

Shanxi Fubon Fertilizer

Haitor

Fuji Silysia Chem

Denka

Fertipower Norway

Plant Tuff

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Biogenic Silicon Enriched Crop Fortification Fertilizer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Biogenic Silicon Enriched Crop Fortification Fertilizer, with price, sales quantity, revenue, and global market share of Biogenic Silicon Enriched Crop Fortification Fertilizer from 2021 to 2026.

Chapter 3, the Biogenic Silicon Enriched Crop Fortification Fertilizer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biogenic Silicon Enriched Crop Fortification Fertilizer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Biogenic Silicon Enriched Crop Fortification Fertilizer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Biogenic Silicon Enriched Crop Fortification Fertilizer.

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