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Agricultural Fumigants Market: Segmented By Type (Phosphine, Chloropicrin, Telone, Metam Sodium And Others), By Application (Soil, Warehouse, and Others), And Region – Global Analysis Of Market Size, Share & Trends For 2019–2020 And Forecasts To 2031

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Abstracts

[176 + Pages Research Report] Agricultural Fumigants Market to surpass USD 2.42 billion by 2031 from USD 1.78 billion in 2021 at a CAGR of 3.08% in the coming years, i.e., 2021-31

Product Overview
The agricultural fumigation Market is used to get rid of soil diseases and pests before planting. Soil fumigation is universally employed wherever high-value agricultural crops are subjected to recurred monocultures. The chemical compounds used in soil fumigation have low boiling points, high vapor densities, relatively high Henry's Law constants (a measure of their partition potential between air and water phases), and are toxic to an extensive spectrum of biological organisms.

Market Highlights
Global Agricultural Fumigants market is expected to project a notable CAGR of 3.08% in 2031.

Global Agricultural Fumigants Market to surpass USD 2.42 billion by 2031 from USD 1.78 billion in 2021 at a CAGR of 3.08% in the coming years, i.e., 2021-31. The rise in the adoption of agricultural fumigants can be attributed to the growing infestation of pests & insects in storage and other crop storage rooms owing to biotic and abiotic factors, awareness about crop protection chemicals, and growth in markets. Markets such as China and India are among the main markets targeted by agricultural fumigants

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service suppliers owing to the existence of the post-harvest losses every year, causing loss to the farmers and other stakeholders involved. These are the chief factors that play a vital role in the adoption of agricultural fumigants services in the region.

Global Agricultural Fumigants: Segments
Phosphine segment to grow with the highest CAGR during 2021-31

Global Agricultural Fumigants market is classified on the basis of Type into Phosphine, Chloropicrin, Telone, Metam Sodium, and others. The maximum share of this segment is mainly attributed to its growing application in both developed and developing countries as an alternative to methyl bromide. Furthermore, other reasons such as phosphine's high degree of penetration, easy accessibility, less toxic nature, and more effectiveness as compared to other fumigants are further boosting the growth of phosphine fumigants market and supporting its supremacy in the global agricultural fumigants market.

Warehouse segment to grow with the highest CAGR during 2021-31

Based on application, the global Agricultural Fumigants Market fragmented into Soil, Warehouse, and Others. A warehouse is a leading application in Agricultural Fumigants Market. Warehouses are significant as the agricultural crop can be stored there as long as the farmer is not willing to sell his produce. In warehouses, the efficient use of fumigants results in maintaining crop value and productivity, which leads to market competitiveness. Several methods of pest control are deployed to kill, repel, or suppress insects, nematodes, and other pests that harm infrastructure, stored food in warehouses. The agricultural fumigants market is gaining traction owing to the severe pest infestation caused in warehouses.

Market Dynamics
Drivers

Rising focus on the reduction of post-harvest losses

Reduction of post-harvest food losses is a critical factor for ensuring food security. Post-harvest losses rise from freshly harvested agricultural produce undergoing changes during handling. Post-harvest damages can be avoided by undertaking fumigation for pest prevention. For example, the decay of citrus waste is controlled by ammonia gas fumigation. Thus, fumigation technology helps in preventing post-harvest losses to keep the superiority of agricultural commodities. Thus, helps the market to grow lucratively.

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The new invention as alternatives for methyl bromide fumigation

Increasing tolerance of pests toward methyl bromide fumigation, followed by its phasing out, has caused the adoption of suitable substitutes for methyl bromide for the management of stored products and to quarantine pests. Methyl bromide fumigant has many substitutes, such as phosphine, sulfuryl fluoride, carbonyl sulfide, ethyl formate, hydrogen cyanide, and methyl isothiocyanate. Thus, producers are concentrating on new product expansions by investing in R&D activities for active ingredients that can inhibit resistant insects by using these substitute fumigants.

Restraint
The high amount of residue during fumigation

The volume of residue that is leftover in the materials treated with fumigants is known by the conditions prevailing during fumigation and by the handling of the material thereon. In some cases, deposit levels may be held to a minimum if several factors that lead to residue accumulation are considered before the treatment. Fumigants with high boiling points continue to present as residues for an extended time period than the more volatile compounds. For instance, acrylonitrile was found to continue in wheat for several days, whereas methyl bromide dissipates in a few hours. Fumigants that react with plant or animal constituents may also leave a substantial residue.

Global Agricultural Fumigants: Key Players
BASF SE (Germany)
Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Syngenta (Switzerland)
ADAMA (Israel)
ARKEMA (Germany)
Nufarm (Australia)
Solvay (Belgium)
Tessenderlo Kerley, Inc. (Belgium)
SGS SA (Switzerland)
UPL (India)
AMVAC (US)
Trinity Manufacturing, Inc. (Germany)

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Douglas products (US)
Intertek (UK)
Nippon Chemical Industrial Co., LTD. (Japan)
DEGESCH America, Inc. (US)
Other Prominent Players
Global Agricultural Fumigants: Regions
Global Agricultural Fumigants market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. The Asia Pacific dominates the Agricultural Fumigants market. This is attributed because of the conducive climatic circumstances, there is a high outbreak of pests and insects observed in warehouses and other storage places. In order to prevent post-harvest losses, farmers choose agricultural fumigants to generate profits.

Global Agricultural Fumigants is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada
Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America
Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe
Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC
Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA
Global Agricultural Fumigants report also contains analysis on:
Agricultural Fumigants Segments:

By Type
Phosphine, Chloropicrin
Telone
Metam Sodium
Others
By Application
Soil
Warehouse
Others

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Agricultural Fumigants Dynamics
Agricultural Fumigants Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints
Agricultural Fumigants Market Report Scope and Segmentation
Report Attribute Details
The market size value in 2021 USD 1.78 billion
The revenue forecast in 2031 USD 2.42 billion
Growth Rate

CAGR of 9.25% from 2021 to 2031
The base year for estimation 2020
Quantitative units Revenue in USD million and CAGR from 2021 to 2030
Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends
Segments covered Type, Application and Region
Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)
Key companies profiled BASF SE (Germany), Syngenta (Switzerland), ADAMA (Israel), ARKEMA (Germany), Nufarm (Australia), Solvay (Belgium), Tessenderlo Kerley, Inc. (Belgium), SGS SA (Switzerland), UPL (India), AMVAC (US), Trinity Manufacturing, Inc. (Germany), Douglas products (US), Intertek (UK), Nippon Chemical Industrial Co., LTD. (Japan), DEGESCH America, Inc. (US) and Other Prominent Players

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Contents

1. EXECUTIVE SUMMARY

2. GLOBAL AGRICULTURAL FUMIGANTS MARKET

2.1. Product Overview
2.2. Market Definition
2.3. Segmentation
2.4. Assumptions and Acronyms

3. RESEARCH METHODOLOGY

3.1. Research Objectives
3.2. Primary Research
3.3. Secondary Research
3.4. Forecast Model
3.5. Market Size Estimation

4. AVERAGE PRICING ANALYSIS

5. MACRO-ECONOMIC INDICATORS

6. MARKET DYNAMICS

6.1. Growth Drivers
6.2. Restraints
6.3. Opportunity
6.4. Trends

7. CORRELATION & REGRESSION ANALYSIS

7.1. Correlation Matrix
7.2. Regression Matrix

8. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE

9. RISK ANALYSIS

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9.1. Demand Risk Analysis
9.2. Supply Risk Analysis

10. GLOBAL AGRICULTURAL FUMIGANTS MARKET ANALYSIS

10.1. Porters Five Forces
  10.1.1. Threat of New Entrants
  10.1.2. Bargaining Power of Suppliers
  10.1.3. Threat of Substitutes
  10.1.4. Rivalry
10.2. PEST Analysis
  10.2.1. Political
  10.2.2. Economic
  10.2.3. Social
  10.2.4. Technological

11. GLOBAL AGRICULTURAL FUMIGANTS MARKET

11.1. Market Size & forecast, 2020A-2030F
  11.1.1. By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  11.1.2. By Volume (Million Units) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12. GLOBAL AGRICULTURAL FUMIGANTS MARKET: MARKET SEGMENTATION

12.1. By Regions
  12.1.1. North America:(U.S. and Canada), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  12.1.2. Latin America: (Brazil, Mexico, Argentina, Rest of Latin America), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  12.1.3. Europe: (Germany, UK, France, Italy, Spain, BENELUX, NORDIC, Hungary, Poland, Turkey, Russia, Rest of Europe), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  12.1.4. Asia-Pacific: (China, India, Japan, South Korea, Indonesia, Malaysia, Australia, New Zealand, Rest of Asia Pacific), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  12.1.5. Middle East and Africa: (Israel, GCC, North Africa, South Africa, Rest of Middle East and Africa), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.2. By Type: Market Share (2020-2030F)

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12.2.1. Phosphine, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.2.2. Chloropicrin, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.2.3. Telone, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.2.4. Metam Sodium, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.2.5. Others, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.3. By Application: Market Share (2020-2030F)
12.3.1. Soil, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.3.2. Warehouse, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
12.3.3. Other, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

13. COMPANY PROFILE

13.1. BASF SE (Germany)
13.1.1. Company Overview
13.1.2. Company Total Revenue (Financials)
13.1.3. Market Potential
13.1.4. Global Presence
13.1.5. Key Performance Indicators
13.1.6. SWOT Analysis
13.1.7. Product Launch
13.2. Syngenta (Switzerland)
13.3. ADAMA (Israel)
13.4. ARKEMA (Germany)
13.5. Nufarm (Australia)
13.6. Solvay (Belgium)
13.7. Tessenderlo Kerley, Inc. (Belgium)
13.8. SGS SA (Switzerland)
13.9. UPL (India)
13.10. AMVAC (US)
13.11. Trinity Manufacturing, Inc. (Germany)
13.12. Douglas products (US)
13.13. Intertek (UK)
13.14. Nippon Chemical Industrial Co., LTD. (Japan)
13.15. DEGESCH America, Inc. (US)
13.16. Other Prominent Players

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14. CONSULTANT RECOMMENDATION

**The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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