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Ethylene Absorber Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product (Anti-Ethylene Bag, Ethylene Filter, Ethylene Sachet, Ethylene Absorbent Sheet, Ethylene Absorbent Pad, Ethylene Environmental Control Systems, Other), By Chemical (Potassium Permanganate, Sodium Permanganate, Titanium Oxide, 1-Methylcyclopropene, Zeolite, Other), By Application (Controlled Environmental Systems, Ripening Rooms, Shipping/Transportation, Residential), By End-Use Industry (Fruits and Vegetables, Flowers, Crops and Seeds), By Region, and Competition

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Abstracts

The global ethylene absorber market achieved a valuation of USD 9.12 billion in 2022 and is projected to experience robust growth in the forecast period, with a Compound Annual Growth Rate (CAGR) of 7.62% expected through 2028. The market is expected to reach USD 13.98 billion by 2028. Ethylene absorbers are devices or materials designed to eliminate ethylene gas from the surrounding environment. Ethylene is a natural plant hormone found in many fruits, vegetables, and flowers. It plays a critical role in the ripening, aging, and senescence processes of these plant materials. Ethylene gas can have both positive and negative effects. On one hand, it is responsible for the natural ripening of fruits and vegetables, which is essential for their flavor, texture, and aroma development. On the other hand, excessive ethylene exposure can accelerate

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the ripening process, leading to over-ripening, spoilage, and decay of produce. This is a concern in scenarios involving the storage and transportation of different types of fruits, vegetables, or flowers together. Ethylene absorbers are utilized in various contexts to regulate and manage ethylene levels. They are commonly employed in the agricultural, horticultural, and food industries to extend the shelf life of fresh produce, prevent premature ripening, and reduce spoilage. These absorbers typically contain substances that react with ethylene, either adsorbing or chemically converting it into non-harmful compounds. Some commonly used materials for ethylene absorption include activated carbon, potassium permanganate, and zeolites. Ethylene absorbers can be integrated into storage containers, transport packaging, and refrigeration systems to maintain optimal conditions for freshness and quality. By controlling ethylene concentrations, these absorbers help preserve the quality and extend the shelf life of perishable items.

Key Market Drivers

Growing Demand for Fresh Produce Preservation Drives Market Growth: The increasing demand for preserving fresh produce is a significant driver for the growth of the global ethylene absorber market. This demand is influenced by several factors that impact the supply chain, consumer preferences, and sustainability efforts. Consumers and retailers seek longer shelf lives for fruits, vegetables, and flowers. Ethylene absorbers help maintain optimal conditions by reducing ethylene concentrations, which, in turn, slows down the ripening and aging processes. This leads to an extended shelf life and improved product quality. Ethylene absorbers play a crucial role in reducing food waste by preventing premature spoilage and over-ripening. With more efficient preservation, a larger percentage of produce can reach consumers in a fresh and consumable state, minimizing the amount of discarded food. Ethylene absorbers enable producers, distributors, and retailers to better manage their supply chains. By using these absorbers, businesses can better synchronize the timing of harvesting, shipping, and retail display, ensuring that produce remains fresh and attractive for a longer duration. Fresh produce that maintains its appearance, flavor, and nutritional value commands higher prices in the market. Ethylene absorbers contribute to premium product offerings, and consumers are willing to pay more for produce that stays fresh for an extended period. Ethylene absorbers provide an environmentally friendly alternative to chemical-based preservation methods. With growing awareness of sustainability and eco-friendly practices, businesses and consumers are seeking solutions that reduce the need for synthetic chemicals while maintaining product quality. Ethylene absorbers help maintain food safety by reducing the risk of microbial growth and spoilage associated with over-ripening. As consumers become more concerned about the safety and quality

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of their food, the use of ethylene absorbers can contribute to meeting these expectations.

Increase in Food Supply Chain Efficiency Drives Market Growth: The increase in food supply chain efficiency is a significant driver for the growth of the global ethylene absorber market. Ethylene absorbers play a crucial role in optimizing various stages of the food supply chain, from production and storage to distribution and retail. Ethylene absorbers help extend the shelf life of fresh produce by controlling ethylene concentrations. This reduces the rate of ripening and spoilage, leading to fewer losses of perishable items during storage and transportation. As a result, the overall food waste and loss in the supply chain are minimized, contributing to greater efficiency and reduced costs. Ethylene absorbers enable producers and suppliers to better align the timing of harvest, shipping, and distribution. This synchronization helps ensure that fresh produce is available when and where it is needed, reducing the likelihood of supply-demand imbalances and optimizing resource utilization. With the help of ethylene absorbers, retailers and distributors can manage their inventory more effectively. Extended shelf life allows for better inventory turnover and reduces the need to discard unsold produce due to spoilage. This, in turn, leads to cost savings and more efficient use of storage space. Ethylene absorbers contribute to a smoother distribution process by allowing for longer transit times without compromising product quality. This flexibility in distribution logistics enables businesses to reach more distant markets, expand their customer base, and optimize their transportation routes. During transportation, fresh produce is exposed to various environmental conditions that can accelerate ripening and spoilage. Ethylene absorbers help maintain a controlled environment within transportation containers, reducing transit losses and ensuring that produce arrives at its destination in optimal condition.

Increasing Consumer Awareness of Food Safety Drives Market Growth: The increasing consumer awareness of food safety is a significant driver for the growth of the global ethylene absorber market. As consumers become more informed and concerned about the safety and quality of the food they consume, there is a growing demand for solutions that can enhance food safety and prevent spoilage. Consumers are increasingly aware that ethylene gas can accelerate the ripening and spoilage of fruits, vegetables, and other perishable items. Ethylene absorbers help maintain optimal conditions by reducing ethylene levels, thereby slowing down the deterioration of food products and preserving their quality. Over-ripening and spoilage can create an environment conducive to microbial growth, potentially leading to foodborne illnesses. By extending the shelf life of produce, ethylene absorbers contribute to reduced microbial activity and improve overall food safety. Ethylene absorbers offer a natural and environmentally friendly solution to

extend the shelf life of produce. This aligns with consumer preferences for products that have fewer synthetic chemicals or additives, promoting a safer and healthier food supply. Consumers are increasingly interested in knowing the origin and journey of their food from farm to table. Ethylene absorbers, by helping to maintain the freshness and quality of produce, contribute to transparent and traceable supply chains, which are key aspects of food safety. Ethylene absorbers help maintain the appearance, flavor, texture, and nutritional content of fruits and vegetables. Consumers are willing to pay a premium for higher-quality products that meet their expectations for taste, freshness, and safety. Ethylene absorbers provide an eco-friendly alternative to chemical-based preservation methods, reducing the need for synthetic pesticides or fungicides. Consumers who prioritize sustainable and environmentally responsible practices are more likely to choose products that utilize such solutions.

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Key Market Challenges

Limited Awareness and Education: Limited awareness and education pose a significant challenge to the global ethylene absorber market. The lack of understanding and knowledge about ethylene absorber technology and its benefits can hinder its adoption and market growth. When potential users, such as producers, distributors, and retailers, are unaware of the existence or advantages of ethylene absorbers, they are less likely to incorporate them into their supply chain or operations. This leads to lower adoption rates and slower market growth. Businesses that are unaware of ethylene absorber technology may miss out on the opportunity to improve their supply chain efficiency, reduce food waste, and enhance product quality. They may continue to use less effective preservation methods or overlook potential cost savings. New technologies often face resistance from stakeholders who are unfamiliar with or skeptical about their benefits. Limited awareness can lead to apprehension and resistance to change, making it difficult to convince stakeholders to adopt ethylene absorbers.

Regulatory Considerations: Regulatory considerations pose a significant challenge to the global ethylene absorber market. These considerations encompass various aspects, including food safety regulations, packaging standards, labeling requirements, and environmental regulations. Navigating the regulatory landscape can impact the adoption, distribution, and market growth of ethylene absorber technology. Ethylene absorbers are often integrated into packaging materials that come into direct contact with food. Regulations governing the use of food contact materials, such as plastics, coatings, and adhesives, can affect the selection and approval of materials for ethylene

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absorber packaging. Regulatory agencies may require comprehensive safety assessments and toxicity testing of materials used in ethylene absorbers to ensure they do not pose health risks when in contact with food. Compliance with these regulations can influence the development and approval of ethylene absorber products. Ethylene absorber packaging must meet labeling and information disclosure requirements. This includes providing accurate and clear instructions for proper usage, handling, and disposal of the product, as well as information about potential allergens.

Changing Consumer Preferences: Changing consumer preferences can pose a challenge to the global ethylene absorber market by influencing demand, product development, marketing strategies, and overall market dynamics. As consumer preferences evolve, ethylene absorber manufacturers and stakeholders need to adapt to meet new expectations and requirements. Consumers are increasingly seeking natural and sustainable options for food preservation. Ethylene absorbers, being a more environmentally friendly alternative to chemical treatments, align with this preference. However, if consumers shift towards other preservation methods perceived as more natural, the demand for ethylene absorbers might be affected. Consumers prioritize freshness, taste, and nutritional value in their food. Ethylene absorbers help maintain the quality of fresh produce, which is valued by consumers. A shift in preferences toward minimally processed and high-quality foods can drive demand for ethylene absorber technologies. Consumers are becoming more aware of the environmental impact of food waste. Ethylene absorbers' ability to reduce spoilage and food waste aligns with this concern. However, if consumers shift toward purchasing only what they need to reduce waste, it could influence the need for extended shelf life solutions.

Key Market Trends

Growing Demand for Sustainable Solutions: The growing demand for sustainable solutions is a significant trend in the global ethylene absorber market. As consumers, businesses, and industries increasingly prioritize environmental responsibility and seek eco-friendly alternatives, ethylene absorbers are well-positioned to address these sustainability concerns. Ethylene absorbers provide a natural and chemical-free approach to extending the shelf life of fresh produce. As consumers seek products with fewer synthetic chemicals, ethylene absorbers offer a sustainable alternative to traditional chemical-based preservation methods. Ethylene absorbers help reduce spoilage and extend the freshness of fruits, vegetables, and flowers. By minimizing food waste along the supply chain, they contribute to more sustainable consumption practices and align with the global goal of reducing food loss. The use of ethylene absorbers can lead to a decrease in the disposal of spoiled produce, which in turn

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reduces the environmental impact associated with waste disposal. This resonates with consumers and businesses seeking to minimize their ecological footprint. Ethylene absorbers can contribute to energy savings by reducing the need for refrigeration and other energy-intensive preservation methods. This aligns with sustainability goals and efforts to reduce energy consumption in the food supply chain. Retailers and food industry players are under increasing pressure to adopt sustainable practices throughout their operations. Ethylene absorbers provide a viable solution to address food waste, aligning with industry sustainability initiatives.

Segmental Insights

Product Insights: In 2022, the Ethylene Absorber market was dominated by the Environmental Control Systems and is predicted to continue expanding over the coming years. Ethylene is a gas that is produced by plants and is responsible for ripening fruits and vegetables. In the food industry, ethylene is used to ripen fruits and vegetables before they are packaged and shipped. Ethylene can also cause spoilage in fruits and vegetables. This is because ethylene accelerates the ripening process, which can lead to the fruits and vegetables becoming overripe and losing their flavor. Environmental control systems can remove ethylene from the air, which can help to prevent spoilage and extend the shelf life of fruits and vegetables. The segment is projected to experience the highest compound annual growth rate (CAGR) from 2023 to 2030.

Chemical Insight: In 2022, the Ethylene Absorber market was dominated by the Potassium permanganate and is predicted to continue expanding over the coming years. Potassium permanganate is a highly effective ethylene absorber. It can absorb up to 99% of ethylene in the air. This is a cost-effective ethylene absorber. It is less expensive than other types of ethylene absorbers, such as 1-methylcyclopropene. It is able to absorb large amounts of ethylene generated by the apple to improve shelf-life properties. It is widely available and can be purchased from most chemical suppliers.

Application Insight: In 2022, the Ethylene Absorber market was dominated by the Shipping/Transportation Systems and is predicted to continue expanding over the coming years. Shipping and long-distance transportation often involve extended periods during which produce is exposed to fluctuating environmental conditions. Ethylene absorbers help maintain a controlled atmosphere within shipping containers, reducing the effects of ethylene exposure and slowing down the ripening process. The global trade of fresh produce has increased significantly in recent years. Ethylene absorbers enable producers to export their products to distant markets while preserving their quality and extending shelf life. Shipping fresh produce across borders often involves

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compliance with various regulations and standards. Ethylene absorbers can help ensure that produce meets quality and safety requirements upon arrival, supporting cross-border trade.

End-Use Industry Insights: In 2022, the Ethylene Absorber market was dominated by the fruit & Vegetables segment and is predicted to continue expanding over the coming years. Fruits and vegetables are known to be highly sensitive to ethylene gas. Even low levels of ethylene exposure can lead to accelerated ripening, softening, and spoilage. Ethylene absorbers help control the ethylene concentration in the environment, slowing down these processes and extending shelf life. The perishable nature of fruits and vegetables makes them prone to spoilage and wastage. Ethylene absorbers significantly reduce food waste by preventing premature ripening and spoilage, thereby contributing to sustainable and efficient supply chain practices. Fruits and vegetables often have longer supply chains that involve harvesting, storage, transportation, and retail display. Ethylene absorbers help maintain product quality and appearance throughout these stages, enabling longer transit times and market availability. Ethylene absorbers allow for better management of produce during periods of high production when supply exceeds demand. By slowing down ripening, they provide flexibility in handling surplus produce and avoiding market gluts.

Regional Insights

The Asia Pacific region has established itself as the leader in the Global Ethylene Absorber Market. North America has a significant demand for fresh fruits, vegetables, and flowers. The region's large population, diverse dietary preferences, and health-conscious consumer base contribute to the consumption of

a wide variety of perishable products. The food supply chain in North America is well-developed and extensive, involving various stages from production to distribution to retail. Ethylene absorbers are integrated into this supply chain to extend the shelf life of produce and reduce waste. North America has a robust retail and supermarket industry, with a wide range of fresh produce available in stores year-round. Ethylene absorbers play a crucial role in maintaining the quality and appearance of produce on retail shelves. The region serves as a global trade hub for fresh produce, with significant imports and exports. Ethylene absorbers enable North American producers to export their products to distant markets while ensuring freshness upon arrival.

Key Market Players

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AgroFresh Inc.,

Bee Chems,

Bioconservacion, S.A.,

BioXTEND Inc.,

DeltaTrak,

Dongguan Dingxing Industry Co., Ltd,

Ethylene Control Inc.,

GreenKeeper Iberia,

Hazel Technologies, Inc.,

Isolcell S.p.A.,

Lipmen CO., Ltd.,

Praxas,

Sancopack,

Secco International Group,

Sercalia

Symphony Environmental Ltda.

Report Scope:

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

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Ethylene Absorber Market, By Product:

- Anti-Ethylene Bag
- Ethylene Filter
- Ethylene Sachet
- Ethylene Absorbent Sheet
- Ethylene Absorbent Pad
- Ethylene Environmental Control Systems
- Other

Ethylene Absorber Market, By Chemical:

- Potassium Permanganate
- Sodium Permanganate, Titanium Oxide
- 1-Methylcyclopropene
- Zeolite
- Other

Ethylene Absorber Market, By Application:

- Controlled Environmental Systems
- Ripening Rooms
- Shipping/Transportation
- Residential

Ethylene Absorber Market, By End-User:

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- Fruits and Vegetables
- Flowers
- Crops and Seeds

Global Ethylene Absorber Market, By region:

- North America
  - United States
  - Canada
  - Mexico
- Asia-Pacific
  - China
  - India
  - South Korea
  - Australia
  - Japan
- Europe
  - Germany
  - France
  - United Kingdom
  - Spain

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Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Ethylene Absorber Market.

Available Customizations:

Global Ethylene Absorber 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).

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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. VOICE OF CUSTOMER

5. GLOBAL ETHYLENE ABSORBER MARKET OUTLOOK

5.1. Market Size & Forecast
  5.1.1. By Value
5.2. Market Share & Forecast
  5.2.1. By Product Type (Anti-Ethylene Bag, Ethylene Filter, Ethylene Sachet, Ethylene Absorbent Sheet, Ethylene Absorbent Pad, Ethylene Environmental Control Systems, Other)
  5.2.2. By Chemical (Potassium Permanganate, Sodium Permanganate, Titanium

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Oxide, 1-Methylcyclopropene, Zeolite, Other)
5.2.3. By Application (Controlled Environmental Systems, Ripening Rooms, Shipping/Transportation, Residential)
5.2.4. By End-Use Industry (Fruits and Vegetables, Flowers, Crops and Seeds)
5.2.5. By Company (2022)
5.2.6. By Region
5.3. Market Map

6. NORTH AMERICA ETHYLENE ABSORBER MARKET OUTLOOK

6.1. Market Size & Forecast
6.1.1. By Value
6.2. Market Share & Forecast
6.2.1. By Product Type
6.2.2. By Chemical
6.2.3. By Application
6.2.4. By End-Use Industry
6.2.5. By Country
6.3. North America: Country Analysis
6.3.1. United States Ethylene Absorber 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 Product Type
6.3.1.2.2. By Chemical
6.3.1.2.3. By Application
6.3.1.2.4. By End-Use Industry
6.3.2. Mexico Ethylene Absorber 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 Product Type
6.3.2.2.2. By Chemical
6.3.2.2.3. By Application
6.3.2.2.4. By End-Use Industry
6.3.3. Canada Ethylene Absorber Market Outlook
6.3.3.1. Market Size & Forecast
6.3.3.1.1. By Value
6.3.3.2. Market Share & Forecast

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6.3.3.2.1. By Product Type
6.3.3.2.2. By Chemical
6.3.3.2.3. By Application
6.3.3.2.4. By End-Use Industry

7. EUROPE ETHYLENE ABSORBER MARKET OUTLOOK

7.1. Market Size & Forecast
7.1.1. By Value
7.2. Market Share & Forecast
7.2.1. By Product Type
7.2.2. By Chemical
7.2.3. By Application
7.2.4. By End-Use Industry
7.2.5. By Country
7.3. Europe: Country Analysis
7.3.1. France Ethylene Absorber 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 Product Type
7.3.1.2.2. By Chemical
7.3.1.2.3. By Application
7.3.1.2.4. By End-Use Industry
7.3.2. Germany Ethylene Absorber 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 Product Type
7.3.2.2.2. By Chemical
7.3.2.2.3. By Application
7.3.2.2.4. By End-Use Industry
7.3.3. United Kingdom Ethylene Absorber 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 Product Type
7.3.3.2.2. By Chemical
7.3.3.2.3. By Application

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7.3.3.2.4. By End-Use Industry
7.3.4. Italy Ethylene Absorber 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 Product Type
7.3.4.2.2. By Chemical
7.3.4.2.3. By Application
7.3.4.2.4. By End-Use Industry
7.3.5. Spain Ethylene Absorber 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 Product Type
7.3.5.2.2. By Chemical
7.3.5.2.3. By Application
7.3.5.2.4. By End-Use Industry

8. ASIA-PACIFIC ETHYLENE ABSORBER MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Product Type
8.2.2. By Chemical
8.2.3. By Application
8.2.4. By End-Use Industry
8.2.5. By Country
8.3. Asia-Pacific: Country Analysis
8.3.1. China Ethylene Absorber 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 Product Type
8.3.1.2.2. By Chemical
8.3.1.2.3. By Application
8.3.1.2.4. By End-Use Industry
8.3.2. India Ethylene Absorber Market Outlook
8.3.2.1. Market Size & Forecast

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info@marketpublishers.com

8.3.2.1.1. By Value
8.3.2.2. Market Share & Forecast
8.3.2.2.1. By Product Type
8.3.2.2.2. By Chemical
8.3.2.2.3. By Application
8.3.2.2.4. By End-Use Industry
8.3.3. South Korea Ethylene Absorber 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 Product Type
8.3.3.2.2. By Chemical
8.3.3.2.3. By Application
8.3.3.2.4. By End-Use Industry
8.3.4. Japan Ethylene Absorber Market Outlook
8.3.4.1. Market Size & Forecast
8.3.4.1.1. By Value
8.3.4.2. Market Share & Forecast
8.3.4.2.1. By Product Type
8.3.4.2.2. By Chemical
8.3.4.2.3. By Application
8.3.4.2.4. By End-Use Industry
8.3.5. Australia Ethylene Absorber Market Outlook
8.3.5.1. Market Size & Forecast
8.3.5.1.1. By Value
8.3.5.2. Market Share & Forecast
8.3.5.2.1. By Product Type
8.3.5.2.2. By Chemical
8.3.5.2.3. By Application
8.3.5.2.4. By End-Use Industry

9. SOUTH AMERICA ETHYLENE ABSORBER MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Product Type
9.2.2. By Chemical
9.2.3. By Application

+44 20 8123 2220
info@marketpublishers.com

9.2.4. By End-Use Industry
9.2.5. By Country
9.3. South America: Country Analysis
9.3.1. Brazil Ethylene Absorber 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 Product Type
9.3.1.2.2. By Chemical
9.3.1.2.3. By Application
9.3.1.2.4. By End-Use Industry
9.3.2. Argentina Ethylene Absorber 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 Product Type
9.3.2.2.2. By Chemical
9.3.2.2.3. By Application
9.3.2.2.4. By End-Use Industry
9.3.3. Colombia Ethylene Absorber 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 Product Type
9.3.3.2.2. By Chemical
9.3.3.2.3. By Application
9.3.3.2.4. By End-Use Industry

10. MIDDLE EAST AND AFRICA ETHYLENE ABSORBER MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Product Type
10.2.2. By Chemical
10.2.3. By Application
10.2.4. By End-Use Industry
10.2.5. By Country
10.3. MEA: Country Analysis

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10.3.1. South Africa Ethylene Absorber 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 Product Type
10.3.1.2.2. By Chemical
10.3.1.2.3. By Application
10.3.1.2.4. By End-Use Industry
10.3.2. Saudi Arabia Ethylene Absorber 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 Product Type
10.3.2.2.2. By Chemical
10.3.2.2.3. By Application
10.3.2.2.4. By End-Use Industry
10.3.3. UAE Ethylene Absorber 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 Product Type
10.3.3.2.2. By Chemical
10.3.3.2.3. By Application
10.3.3.2.4. By End-Use Industry

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. PESTLE ANALYSIS

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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. COMPETITIVE LANDSCAPE

15.1. Business Overview
15.2. Company Snapshot
15.3. Products & Services
15.4. Financials (In case of listed companies)
15.5. Recent Developments
15.6. SWOT Analysis
  15.6.1. AgroFresh Inc.,
  15.6.2. Bee Chems,
  15.6.3. Bioconservacion, S.A.,
  15.6.4. BioXTEND Inc.,
  15.6.5. DeltaTrak,
  15.6.6. Dongguan Dingxing Industry Co., Ltd,
  15.6.7. Ethylene Control Inc.,
  15.6.8. GreenKeeper Iberia,
  15.6.9. Hazel Technologies, Inc.,
  15.6.10. Isolcell S.p.A.,

16. STRATEGIC RECOMMENDATIONS

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