

Liquid Fertilizer Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Type (Nitrogen, Phosphorus, Potash, and Micronutrients), By Mode of Application (Soil, Foliar, Fertigation and Others), By Ingredient Type (Organic and Synthetic), By Crop Type (Cereals & Grains, Fruits & Vegetables, Oilseeds & Pulses, Commercial Crops, and Others), By Region and Competition

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Abstracts

Global Liquid Fertilizer Market has valued at USD 2.67 Billion in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 3.22% through 2028. Liquid fertilizers are compounds derived from either synthetic or natural sources, providing essential plant nutrients required for optimal plant growth. These fertilizers enhance soil effectiveness by improving aeration and water retention capacity. To enhance crop production, crucial micronutrients such as iron, manganese, copper, zinc, as well as macronutrients like nitrogen, phosphate, and potassium, are applied in liquid form either directly to crops or to the soil. Liquid fertilizers deliver the necessary nutrients to plants precisely when needed, adapting to various environmental conditions. They are expected to be absorbed by plants or trees through their roots and leaf pores, offering a rich source of micronutrients and growth hormones. Consequently, they play a significant role in crop cultivation, particularly in the growth of crops like maize. Acting as catalysts, liquid fertilizers enhance a plant's capacity to absorb nutrients. Additionally, they facilitate the rapid formation of seedlings and support early plant growth.

Considering the projected increase in the global human population, the demand for larger food quantities is expected to rise significantly in the coming years. This underscores the critical importance of agriculture and farming, as they remain the fundamental means of mass food production. However, with limited available land and minimal prospects for expanding agricultural areas, it becomes even more crucial to optimize existing resources for sustainable farming practices.

Key Market Drivers

Increased Demand for High-Efficiency Fertilizers

The rising demand for high-efficiency fertilizers is anticipated to fuel the global demand for liquid fertilizers. As the global population continues to surge, there is an increased need for high-yield crops to ensure food security. High-efficiency fertilizers, especially in liquid form, offer improved nutrient absorption rates compared to traditional solid fertilizers. They are easily absorbable and can provide immediate nutrients to plants, thus increasing crop yields significantly. Liquid fertilizers also allow for precision application, minimizing nutrient runoff and promoting environmentally friendly farming practices. With increasing awareness about sustainable agriculture, farmers globally are transitioning towards these efficient and environmentally benign fertilizers. Furthermore, innovative technologies in the fertilizer industry are now enabling the production of customized liquid fertilizers tailored to the needs of specific crops and soil types. This adaptability offers farmers an efficient tool for managing nutrients and enhancing crop productivity, consequently driving the global demand for liquid fertilizers. An increase in institutional support from governments and other stakeholders to promote the use of high-efficiency fertilizers adds to this demand. Therefore, the shift towards high-efficiency fertilizers is expected to significantly impact the global liquid fertilizer market positively.

Emergence of Sustainable Farming Practices

The global demand for liquid fertilizer is expected to grow substantially due to the advent of sustainable farming practices. As the environmental impact of traditional farming methods becomes increasingly apparent, there is a noticeable shift towards sustainable and organic agricultural practices that are more eco-friendly. Liquid fertilizers, known for their ease of application and quick absorption by plants, fit well into this trend. They offer a sustainable and efficient alternative to conventional solid fertilizers, which often contribute to soil degradation and water pollution. With their liquid form, these fertilizers can be precisely tailored to suit specific plant needs, reducing

waste and improving crop yields. This level of precision in nutrient delivery not only promotes better plant health but also contributes to sustainable food production.

Furthermore, the use of liquid fertilizers encourages the adoption of precision agriculture techniques. By accurately targeting the nutritional needs of crops, farmers can optimize resource utilization, minimize environmental impact, and maximize productivity. The flexibility and adaptability of liquid fertilizers make them an attractive choice for modern farmers who aim to meet the global push for sustainable food production. As these sustainable farming practices become more prevalent and the benefits of liquid fertilizers become widely recognized, the global market for liquid fertilizers is expected to rise correspondingly. This growth not only supports the agricultural industry but also promotes a more sustainable future for agriculture worldwide, ensuring the long-term health of our planet and its ecosystems.

Adoption of Precision Farming and Protected Agriculture

The global adoption of precision farming and protected agriculture is anticipated to significantly stimulate demand for liquid fertilizers. Precision farming, a technologically advanced farming method, enables precise application of inputs such as liquid fertilizers to improve crop productivity and reduce environmental impact. With the use of GPS and GIS technologies, farmers can apply the precise amount of liquid fertilizer required for each plant, thereby reducing wastage and ensuring optimal nutrient uptake. On the other hand, protected agriculture, which includes methods such as greenhouse cultivation and vertical farming, necessitates the use of liquid fertilizers for efficient nutrient delivery. This is due to the controlled environment and hydroponic systems commonly used in these methods, which are more compatible with liquid fertilizers. The rising need for high crop yield to feed the growing global population coupled with the increasing awareness about sustainable farming practices are further expected to drive the adoption of these advanced farming techniques, thereby propelling the demand for liquid fertilizers globally.

Increase in Demand for Food and Agricultural Products

The rising global demand for food and agricultural products is predicted to substantially increase the demand for liquid fertilizers. As the world's population continues to grow, so does the need to efficiently produce more food to meet this demand. Liquid fertilizers, known for their ease of application and quick absorption by crops, are becoming favored by farmers and agri-businesses worldwide. These products deliver essential nutrients directly to plants, resulting in higher yield and faster growth, which

are critical in meeting the escalating food demand. Additionally, in regions where agriculture is intensifying, the need for improved crop productivity is crucial, further driving the demand for these fertilizers. Moreover, the shift towards sustainable farming practices and precision agriculture, which aims to minimize waste and optimize resource use, aligns with the use of liquid fertilizers, reinforcing their demand. It's also worth noting that liquid fertilizers are more adaptable to various soil types, making them ideal for use in diverse geographical locations where different crops are grown. Thus, the growing need to enhance agricultural productivity to meet the increasing demand for food is expected to propel the global demand for liquid fertilizers.

Key Market Challenges

Logistical Challenges

The global demand for liquid fertilizer is expected to face a decline, largely due to burgeoning logistical challenges. As liquid fertilizers are bulk commodities, their transport, storage, and handling require specialized infrastructure such as storage tanks, pipelines, and appropriate transportation modes, often resulting in high costs. The volatility of oil prices, a key component in shipping costs, adds to these escalating expenses. Additionally, the ongoing global pandemic has led to stringent border controls, causing significant delays in international shipments. There has been a sharp rise in regulatory restrictions as well, with many countries imposing rigorous standards on the storage and handling of liquid fertilizers, further burdening their distribution. Furthermore, the shift towards sustainable farming practices and organic fertilizers is affecting overall demand. These logistical challenges, coupled with environmental considerations, are expected to impact the global demand for liquid fertilizers negatively, forcing manufacturers and distributors to rethink their strategies and adapt to a changing market landscape.

Storage Issues

The global demand for liquid fertilizers is expected to experience a decrease, primarily due to the challenges associated with storage. Liquid fertilizers, while beneficial in terms of immediate nutrient availability and uniform application, pose significant storage issues that potentially undermine these advantages. These fertilizers need to be stored in specialized, often expensive, storage facilities to prevent leakage and contamination. Moreover, these require specific transportation mechanisms that contribute significantly to operational costs. The impact of climate conditions on storage also presents an issue. In extremely cold weather, the liquid fertilizer can freeze, rendering it unusable

and resulting in financial losses. Likewise, in hot weather, there is the risk of the fertilizer degrading or evaporating if not adequately insulated. These storage issues not only increase the overall cost of using liquid fertilizers but also pose environmental risks, leading to increased scrutiny and regulations from environmental bodies worldwide. The combination of these factors is likely to decrease the global demand for liquid fertilizers, as farmers and agricultural businesses seek more cost-effective and environmentally friendly alternatives.

Key Market Trends

Advancements in Farming Equipment and Technology

Advancements in farming equipment and technology are triggering a global surge in the demand for liquid fertilizers. At the forefront of this trend is precision agriculture – a modern farming approach that leverages technology to monitor and optimize crop growth. Precision farming equipment, such as GPS-guided sprayers, allows farmers to apply liquid fertilizers with unparalleled accuracy, reducing wastage and enhancing crop yields. Similarly, innovations like drone technology enable aerial application of liquid fertilizers, offering coverage for large-scale farms in shorter timeframes, and reaching terrains traditionally challenging to cultivate. Furthermore, the growth of smart irrigation technology, capable of integrating fertilizer application with watering schedules, offers an added level of convenience, efficiency, and resource management. These advancements not only make liquid fertilizers a more attractive option for farmers but also align with the global push towards sustainable farming practices. As agricultural technology continues to evolve, the demand for liquid fertilizers is set to increase, driven by their efficiency, ease of application, and compatibility with modern farming equipment.

Surge in The Trend of Vertical Farming Under Controlled Environment

Vertical farming under a controlled environment is a burgeoning trend in the agriculture sector, expected to fuel the global demand for liquid fertilizer significantly. This modern method of farming optimizes plant growth by controlling environmental factors, such as light, humidity, and temperature, often within urban areas or confined spaces. It's a trend inextricably linked to the uptick in liquid fertilizer use for its unique advantages. Liquid fertilizers are easily absorbed and provide immediate nutrients to plants, making them an ideal fit for vertical farming's controlled and intensive cultivation approach. Moreover, they can be applied in precise quantities, reducing waste and promoting sustainable farming. The increasing global population, coupled with the shrinking arable

land, necessitates such innovative cultivation methods. As vertical farming continues to gain traction, it's projected that the liquid fertilizer market will see substantial growth. Increased yield and efficiency in food production are central to this trend, with liquid fertilizers playing a crucial role. Therefore, as more growers adopt vertical farming techniques, the global demand for liquid fertilizers is set to surge, reflecting the industry's move towards sustainable and efficient farming practices.

Segmental Insights

Type Insights

Based on the Type, the nitrogen segment has emerged as the dominant force in the global market for fertilizers. With macro and microelements playing a vital role in promoting plant growth, nitrogen stands out as the most heavily ingested nutrient in current farming practices worldwide. Its significance lies in its role in amino acid synthesis, which subsequently leads to protein production, as well as its involvement in almost every metabolic reaction within a plant. Farmers often grapple with the challenge of low nitrogen availability in the soil, necessitating the increased use of liquid nitrogen fertilizers to address this issue. Moreover, a plethora of nutrient mixtures are formulated and employed to ensure optimal nourishment for plants. Consequently, the demand for liquid nitrogen fertilizers remains consistently high on a global scale.

In addition to nitrogen, potash is expected to witness the highest growth rate during the forecast period. This surge can be attributed to the growing need for enhanced productivity within the constraints of limited land area, as well as the increased application of potash fertilizers. As more agricultural producers recognize the benefits of utilizing these fertilizers, their adoption rates continue to drive the expansion of the market.

Crop Type Insights

Based on the Crop type, the fruits and vegetables segment has emerged as the dominant force in the liquid fertilizers market. Fruit consumption has witnessed a remarkable surge in the past two decades, with expectations of continued growth in the years to come. According to a report published by FAO, China has emerged as the world's top producer of fresh fruits and vegetables, surpassing both the United States and India in terms of production and growth in 2018. The rise in fruit and vegetable exports has led to an expansion in crop plantation areas, resulting in higher output levels. Consequently, there is a significant projected growth in the market for chemical

fertilizers and pesticides for fruits and vegetables. This growth is expected to have a positive impact on the overall market.

On the other hand, the cereals and grains segment is anticipated to experience the highest growth rate during the forecast period, particularly in Asian and North American countries. The demand for crops such as corn, wheat, rice, and sorghum across various sectors has led to an increased consumption of crop protection chemicals, aiming to enhance the output of these cereals. As a result, this segment is forecasted to develop at the fastest pace. In terms of the liquid fertilizer market for cereals and grains, Asia Pacific holds the largest share, primarily driven by high crop output in countries such as the United States, China, India, and Japan.

Regional Insights

The North American liquid fertilizers market is projected to maintain its dominance. The presence of a diverse range of fertilizer producers in the region, coupled with the establishment of new manufacturing facilities and distribution channels, will drive market expansion throughout the forecast period. Moreover, growing awareness about the use of organic liquid fertilizers and increasing demand for high-value crops will further propel market growth. Historically, Asia-Pacific has held the largest market share. The escalating cost of conventional fertilizers and their detrimental environmental impact have led to a significant surge in the adoption of high-efficiency fertilizers in agriculture, including liquid potassium fertilizers. Factors such as rising food consumption, high crop yields, and advancements in automated irrigation systems are fueling the demand for liquid fertilizers in the Asia-Pacific region. Thanks to remarkable economic growth, population expansion, and government support, Asia-Pacific remains the largest and fastest-growing market for liquid fertilizers.

In Europe, the liquid fertilizers market ranks as the third-largest. The region is anticipated to witness substantial growth during the forecast period, driven by factors such as increased access to subsidized fertilizers, expansion of hydroponic farming areas, and the adoption of automation. This has led to the growing acceptance of technologies like liquid fertilizer sprayers. Alongside market expansion, companies in the liquid fertilizers market are not only focusing on product quality and marketing but also expanding their presence in emerging markets.

Key Market Players

Yara International ASA

Nutrien Ltd.

Israel Chemical Ltd.

Haifa Chemical Ltd.

AgroLiquid AD

The Mosaic Company

Nutri Tech Solutions

K+S Aktiengesellschaft

Plant Food Company Inc.

EuroChem Group

Report Scope:

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

Liquid Fertilizer Market, By Type:

Nitrogen

Phosphorus

Potash

Micronutrients

Liquid Fertilizer Market, By Mode of Application:

Soil

Foliar

Fertigation

Others

Liquid Fertilizer Market, By Ingredient Type:

Organic

Synthetic

Liquid Fertilizer Market, By Crop Type:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Commercial Crops

Others

Liquid Fertilizer Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Liquid Fertilizer Market.

Available Customizations:

Global Liquid Fertilizer 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 & Validations
- 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 LIQUID FERTILIZER MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Nitrogen, Phosphorus, Potash, and Micronutrients)
 - 5.2.2. By Mode of Application (Soil, Foliar, Fertigation and Others)
 - 5.2.3. By Ingredient Type (Organic and Synthetic)

5.2.4. By Crop Type (Cereals & Grains, Fruits & Vegetables, Oilseeds & Pulses, Commercial Crops, and Others)

5.2.5. By Region

5.2.6. By Company (2022)

5.3. Market Map

6. NORTH AMERICA LIQUID FERTILIZER MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Mode of Application

6.2.3. By Ingredient Type

6.2.4. By Crop Type

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Liquid Fertilizer 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 Type

6.3.1.2.2. By Mode of Application

6.3.1.2.3. By Ingredient Type

6.3.1.2.4. By Crop Type

6.3.2. Canada Liquid Fertilizer 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 Type

6.3.2.2.2. By Mode of Application

6.3.2.2.3. By Ingredient Type

6.3.2.2.4. By Crop Type

6.3.3. Mexico Liquid Fertilizer 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 Type

6.3.3.2.2. By Mode of Application

6.3.3.2.3. By Ingredient Type

6.3.3.2.4. By Crop Type

7. EUROPE LIQUID FERTILIZER MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Mode of Application

7.2.3. By Ingredient Type

7.2.4. By Crop Type

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Liquid Fertilizer 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 Type

7.3.1.2.2. By Mode of Application

7.3.1.2.3. By Ingredient Type

7.3.1.2.4. By Crop Type

7.3.2. United Kingdom Liquid Fertilizer 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 Type

7.3.2.2.2. By Mode of Application

7.3.2.2.3. By Ingredient Type

7.3.2.2.4. By Crop Type

7.3.3. Italy Liquid Fertilizer 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 Type

7.3.3.2.2. By Mode of Application

7.3.3.2.3. By Ingredient Type

7.3.3.2.4. By Crop Type

7.3.4. France Liquid Fertilizer 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 Type
 - 7.3.4.2.2. By Mode of Application
 - 7.3.4.2.3. By Ingredient Type
 - 7.3.4.2.4. By Crop Type
- 7.3.5. Spain Liquid Fertilizer 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 Type
 - 7.3.5.2.2. By Mode of Application
 - 7.3.5.2.3. By Ingredient Type
 - 7.3.5.2.4. By Crop Type

8. ASIA-PACIFIC LIQUID FERTILIZER MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Mode of Application
 - 8.2.3. By Ingredient Type
 - 8.2.4. By Crop Type
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Liquid Fertilizer 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 Type
 - 8.3.1.2.2. By Mode of Application
 - 8.3.1.2.3. By Ingredient Type
 - 8.3.1.2.4. By Crop Type
 - 8.3.2. India Liquid Fertilizer 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 Type
- 8.3.2.2.2. By Mode of Application
- 8.3.2.2.3. By Ingredient Type
- 8.3.2.2.4. By Crop Type
- 8.3.3. Japan Liquid Fertilizer 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 Type
 - 8.3.3.2.2. By Mode of Application
 - 8.3.3.2.3. By Ingredient Type
 - 8.3.3.2.4. By Crop Type
- 8.3.4. South Korea Liquid Fertilizer 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 Type
 - 8.3.4.2.2. By Mode of Application
 - 8.3.4.2.3. By Ingredient Type
 - 8.3.4.2.4. By Crop Type
- 8.3.5. Australia Liquid Fertilizer 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 Type
 - 8.3.5.2.2. By Mode of Application
 - 8.3.5.2.3. By Ingredient Type
 - 8.3.5.2.4. By Crop Type

9. SOUTH AMERICA LIQUID FERTILIZER MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Mode of Application
 - 9.2.3. By Ingredient Type
 - 9.2.4. By Crop Type
 - 9.2.5. By Country

- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Liquid Fertilizer 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 Type
 - 9.3.1.2.2. By Mode of Application
 - 9.3.1.2.3. By Ingredient Type
 - 9.3.1.2.4. By Crop Type
 - 9.3.2. Argentina Liquid Fertilizer 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 Type
 - 9.3.2.2.2. By Mode of Application
 - 9.3.2.2.3. By Ingredient Type
 - 9.3.2.2.4. By Crop Type
 - 9.3.3. Colombia Liquid Fertilizer 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 Type
 - 9.3.3.2.2. By Mode of Application
 - 9.3.3.2.3. By Ingredient Type
 - 9.3.3.2.4. By Crop Type

10. MIDDLE EAST AND AFRICA LIQUID FERTILIZER MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Mode of Application
 - 10.2.3. By Ingredient Type
 - 10.2.4. By Crop Type
 - 10.2.5. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Liquid Fertilizer 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 Type
 - 10.3.1.2.2. By Mode of Application
 - 10.3.1.2.3. By Ingredient Type
 - 10.3.1.2.4. By Crop Type
- 10.3.2. Saudi Arabia Liquid Fertilizer 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 Type
 - 10.3.2.2.2. By Mode of Application
 - 10.3.2.2.3. By Ingredient Type
 - 10.3.2.2.4. By Crop Type
- 10.3.3. UAE Liquid Fertilizer 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 Type
 - 10.3.3.2.2. By Mode of Application
 - 10.3.3.2.3. By Ingredient Type
 - 10.3.3.2.4. By Crop Type
- 10.4. Drivers
- 10.5. Challenges

11. MARKET TRENDS & DEVELOPMENTS

- 11.1. Recent Development
- 11.2. Mergers & Acquisitions
- 11.3. Product Launches

12. GLOBAL LIQUID FERTILIZER MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers

- 13.4. Power of Customers
- 13.5. Threat of Substitute Products

14. COMPETITIVE LANDSCAPE

- 14.1. Yara International ASA
 - 14.1.1. Business Overview
 - 14.1.2. Service Offerings
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel
 - 14.1.5. SWOT Analysis
- 14.2. Nutrien Ltd.
- 14.3. Israel Chemical Ltd.
- 14.4. Haifa Chemical Ltd.
- 14.5. AgroLiquid AD
- 14.6. The Mosaic Company
- 14.7. Nutri Tech Solutions
- 14.8. K+S Aktiengesellschaft
- 14.9. Plant Food Company Inc.
- 14.10. EuroChem Group

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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