

De-Icing Fluid Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Type (Type I, Type II, Type III, Type IV), By Application (Commercial and Non-Commercial), By Composition (Ethylene Glycol and Propylene Glycol), By Region and Competition

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Abstracts

The Global De-Icing Fluid Market has reached a valuation of USD 4.95 billion in 2022 and is poised for substantial growth in the forecast period, projecting a Compound Annual Growth Rate (CAGR) of 4.63% through 2028. Ethylene Glycol and Propylene Glycol stand as major compounds widely employed as antifreeze agents. They find extensive applications in aircraft de-icing and automotive antifreeze solutions. Alongside salts, alcohols, and glycols, these compounds effectively reduce the freezing point of water in de-icing fluids. Mechanical de-icing methods, including pressing, scraping, and heat application, are also utilized. De-icing solutions are applied to surfaces via hoses or spray guns. The demand for de-icing fluid is particularly pronounced in regions with cold climates.

The utilization of de-icing fluids holds paramount importance across various industries, encompassing aviation, transportation, and consumer-specific requirements. The global de-icing fluid market is experiencing rapid growth owing to its diverse applications. In regions characterized by cold climates, the accumulation of snow on aircraft poses significant safety risks, resulting in an increased need for de-icing fluid. According to the International Civil Aviation Organization (ICAO), there has been a noteworthy rise in accidents, both in the United States (16%) and worldwide (12%) during 2018-2019. The ongoing fluctuations in climate patterns and escalating snowfall in cold nations further contribute to the demand for de-icing fluids. Furthermore, the expansion of tourism

activities and population in cold regions fuels market growth.

The aviation sector plays a pivotal role in propelling the global demand for de-icing fluid, serving as a primary driver for market size expansion. However, the COVID-19 pandemic had a significant adverse impact on various industries, including aviation, due to mobility restrictions. The manufacturing of new products and supply chains were severely disrupted, impeding the de-icing fluid market's share. Nevertheless, with the gradual reopening of industries and substantial investments by key players, the market is expected to regain momentum in the current climate and is anticipated to lead the de-icing market in the coming years.

Key Market Drivers

Growth in Infrastructure Development and Urbanization

The global landscape is currently experiencing a rapid transformation fueled by the forces of urbanization and infrastructure development. This profound metamorphosis is driving the demand for a wide range of industrial products, including de-icing fluids. These specialized fluids, with their unique properties and capabilities, are becoming increasingly important in maintaining safety and operational efficiency in various infrastructural facilities, particularly in regions that grapple with severe winter conditions.

The trend of urbanization is a worldwide phenomenon, witnessing a significant shift of populations from rural to urban areas. This ongoing change necessitates extensive infrastructure development, encompassing the creation of robust transportation networks, reliable utilities, and modern buildings that cater to the needs of growing urban populations. As these infrastructural frameworks expand and evolve, the need for effective maintenance and safety measures becomes paramount, and this is where de-icing fluids play a crucial role.

It is important to note that infrastructure development extends beyond urban construction; it also encompasses the development and enhancement of airport facilities. In response to the burgeoning urban population and the subsequent surge in air travel, there has been a notable focus on building centralized de-icing facilities (CDFs). This emerging market trend arises from the expansion and modernization efforts undertaken by airports worldwide. As airports strive to accommodate the increasing demands of urbanization and air travel, the demand for reliable and efficient de-icing fluids is expected to witness significant growth.

The significance of de-icing fluids in infrastructure cannot be overstated, particularly in areas that face harsh winter conditions. These fluids play a vital role in ensuring the safe and uninterrupted operation of critical surfaces such as roads, bridges, and runways, by effectively removing ice and minimizing potential hazards. By employing de-icing fluids, infrastructures can maintain optimal safety standards and ensure smooth operations, even in the face of challenging winter weather.

In the aviation industry specifically, de-icing fluids are indispensable for the safe operation of aircraft during winter. The accumulation of ice on wings and other aircraft surfaces can severely compromise the aerodynamic performance and maneuverability of an aircraft, posing significant risks to flight safety. Thus, the application of de-icing fluids becomes an essential pre-flight procedure, guaranteeing that aircraft operate under optimal conditions and minimizing the potential hazards associated with ice build-up.

In summary, the evolving global landscape, driven by urbanization and infrastructure development, has led to an increased demand for de-icing fluids. These specialized fluids find their application in various infrastructural facilities, from roads and bridges to airport runways, ensuring the safety and operational efficiency of critical surfaces. As urban populations continue to grow and air travel becomes more prevalent, the importance of de-icing fluids in maintaining safety and smooth operations will only continue to rise.

Surge in Air cargo Operations

The global de-icing fluid market is witnessing considerable growth, primarily driven by the surge in air cargo operations worldwide. As the aviation industry expands its operations to meet the increasing demand for quick and efficient transportation of goods, the need for de-icing fluids has seen a significant rise. This article discusses how the increase in air cargo operations is influencing the global de-icing fluid market.

The use of de-icing fluids is crucial in ensuring the safety and efficiency of aircraft during winter conditions. Ice buildup on wings and other aircraft surfaces can severely affect the aircraft's performance, making de-icing fluids indispensable. These fluids are specially formulated to effectively remove ice and snow, preventing any potential hazards that could arise from the icy conditions.

In recent years, air cargo operations have seen a substantial increase, driven by the global demand for speedy delivery of goods, especially in the e-commerce sector. The

rise in online shopping and the need for quick order fulfillment have contributed to the growth of air cargo transportation. Furthermore, recent global events, such as the COVID-19 pandemic, have highlighted the importance of air cargo in delivering essential supplies quickly across borders. From medical equipment to perishable goods, air cargo plays a vital role in keeping the supply chain running smoothly, even during challenging times.

With the rising number of flights, particularly in regions with cold climates, the use of de-icing fluids becomes even more critical. As more flights take off and land, especially during the winter months, the demand for de-icing fluids is set to increase further. This trend presents opportunities for manufacturers and suppliers in the de-icing fluid market to innovate and develop advanced solutions that meet the evolving needs of the aviation industry.

In conclusion, the growth of air cargo operations and the increasing need for quick and efficient transportation of goods are driving the global de-icing fluid market. The importance of de-icing fluids in ensuring aircraft safety and performance during winter conditions cannot be overstated. With the rising demand for air cargo services and the need for reliable de-icing solutions, the market is poised for further expansion and innovation in the coming years.

Key Market Challenges

Rising Demand and Supply Chain Disruptions

The increasing demand for air travel and the expansion of air cargo operations have led to a surge in the need for de-icing fluids. These fluids, specifically designed to remove ice and snow from aircraft surfaces, are crucial for maintaining the safety and efficiency of flights during winter conditions, making them indispensable in the aviation industry.

However, meeting this growing demand is proving to be a significant challenge. With the rise in air traffic, especially during the winter months when adverse weather conditions are more prevalent, the consumption of de-icing fluids has increased significantly. This surge in demand is putting immense pressure on manufacturers to ramp up production, which can be a daunting task due to various factors.

One of the key challenges faced by manufacturers is the availability of raw materials. De-icing fluids require specific chemicals that may be limited in supply, leading to potential bottlenecks in the production process. Additionally, the manufacturing

capacities of these fluids may not be sufficient to meet the surging demand, further exacerbating the supply-demand gap.

Moreover, logistical constraints pose another hurdle in ensuring a steady supply of de-icing fluids. The transportation of these fluids, often in large quantities, requires careful coordination and efficient distribution networks. However, disruptions in the global supply chain, including geopolitical tensions and trade restrictions, have caused delays and logistical challenges in the delivery of de-icing fluids.

Furthermore, the COVID-19 pandemic has had a significant impact on global logistics, further adding to the complexities faced by the de-icing fluid market. The pandemic-induced restrictions and reduced air travel resulted in a decline in demand initially. However, as travel restrictions eased and air traffic gradually resumed, the demand for de-icing fluids surged, creating additional strain on an already disrupted supply chain.

These disruptions in the supply chain and delays in the delivery of de-icing fluids have had implications for both manufacturers and end-users. For manufacturers, the delays have led to production slowdowns, affecting their ability to meet the soaring demand. On the other hand, for end-users, particularly airlines and airport authorities, the delayed delivery of de-icing fluids has posed operational challenges. Timely de-icing is crucial for safe and efficient flight operations, and any delays can lead to flight cancellations or disruptions, impacting both passenger experience and airline schedules.

In conclusion, the increasing demand for de-icing fluids in the aviation industry, coupled with supply chain disruptions and logistical challenges, has created a complex landscape for manufacturers and end-users. Addressing these challenges requires strategic planning, collaboration, and innovation to ensure a steady supply of de-icing fluids and the safe operation of flights during winter conditions.

Key Market Trends

Development in Anti-Icing Technologies

Anti-icing technologies play a crucial role in ensuring the safety and efficiency of various sectors, especially aviation. These technologies help prevent the accumulation of ice on surfaces such as aircraft wings, thereby maintaining operational efficiency and safety. The advent of advanced anti-icing technologies has been a game-changer, offering more effective and efficient solutions compared to traditional methods.

In recent years, there has been an uptick in the research and development of innovative anti-icing/deicing techniques. These advancements aim to enhance the effectiveness, efficiency, and environmental sustainability of de-icing processes. For instance, new formulations are being developed that not only remove ice but also prevent its formation in the first place.

Moreover, there are ongoing efforts to develop anti-icing technologies that use less fluid, reducing the environmental impact and cost associated with de-icing processes. These cutting-edge technologies are expected to revolutionize the de-icing fluid market, driving growth, and creating new opportunities for market players.

The global de-icing fluid market is projected to grow significantly between 2023 and 2030. The development of advanced anti-icing technologies is expected to be a major driver of this growth. As these technologies become more prevalent, the demand for specialized de-icing fluids is likely to increase, fueling the expansion of the market.

Furthermore, the rise of these technologies may also lead to the emergence of new market players, fostering competition and innovation in the sector. On the other hand, existing market players will need to adapt and innovate to stay competitive in this rapidly changing landscape.

With the increasing focus on sustainability and environmental impact, the development of eco-friendly de-icing technologies is gaining traction. Researchers are exploring alternative materials and methods to minimize the use of harmful chemicals while maintaining the effectiveness of anti-icing solutions. These eco-friendly approaches not only contribute to a greener and cleaner environment but also align with the growing demand for sustainable practices in various industries.

In conclusion, the continuous advancements in anti-icing technologies are reshaping the landscape of de-icing processes. From improved formulations to eco-friendly alternatives, these innovations offer safer, more efficient, and environmentally conscious solutions. As the market expands and competition intensifies, the industry will witness further breakthroughs and transformative changes, benefitting sectors that rely on reliable and effective anti-icing solutions.

Segmental Insights

Composition Insights

Based on the category of composition, the propylene glycol segment emerged as the dominant player in the global market for De-Icing Fluid in 2022. Propylene Glycol, a versatile compound, serves multiple purposes across various industries. It acts as a base fluid for aircraft deicing composition, ensuring safe takeoffs and landings in wintry conditions. In the food industry, it acts as a coolant, maintaining optimal temperatures during production and storage processes.

One of the notable advantages of Propylene Glycol over ethylene glycol is its lower toxicity, making it a safer choice for many applications. Its effectiveness in deicing products that have been frozen due to cold climatic conditions makes it widely used in this segment.

The propylene glycol segment is driven by several factors, including special combinations of low foaming surfactants and dye packages, excellent surface wetting and spray characteristics, biodegradability, and being triazole-free. Additionally, it is compatible with various application equipment, further enhancing its versatility.

In the aerospace and commercial sectors, Propylene Glycol finds application in deicing runways, equipment, pilot tubes, static pressure ports, and more. Its use contributes to improved aircraft engine performance, ensuring smooth and efficient operations.

Type Insights

The Type I segment is projected to experience rapid growth during the forecast period. They specialize in providing advanced weather protection solutions to industries such as aviation, rail, and facility management. These solutions are equipped with a comprehensive corrosion inhibition package, ensuring durability and longevity. By effectively clearing the way for runway and aircraft operations, as well as track and platform maintenance, they contribute to increased efficiency and productivity. As a result, their solutions have gained significant traction in the market, driving growth and expansion during the forecast period.

In the North America region, the American Society of Civil Engineers (ASCE) reports that there is an extensive rail network spanning approximately 140,000 miles. Among these, Amtrak operates over a 21,400-mile network, with the remaining 70% owned by other railroads. Recognizing the importance of enhancing rail infrastructure, Amtrak secured a substantial funding of US\$2 billion from the federal government. This funding will be instrumental in supporting the development and improvement of rail services,

further fueling growth and innovation in the industry.

Regional Insights

North America emerged as the dominant player in the Global De-Icing Fluid Market in 2022, holding the largest market share in terms of value. The increasing population and per capita income in the region have been key factors in boosting the aerospace industry. According to Boeing's 2020 Commercial Market Outlook (CMO), North America is experiencing significant growth in commercial airplanes, with economic growth projected at 1.9%, airline traffic growth at 2.7%, and airline fleet growth at 1.7%. This robust growth in the aerospace industry is expected to drive the demand for aircraft maintenance, particularly in the North American region. Furthermore, the ecological imbalances are leading to more winter precipitation and extremely cold climatic conditions, which further increases the need for deicing products for efficient removal of snow and ice. As a result, the Deicing Fluid market is poised to experience a significant upsurge in the North American region.

Key Market Players

Clariant International Ltd.

The Dow Chemical Company

Kilfrost Ltd.

Proviron Holding NV

Cryotech Deicing Technology

Lnt Services, Inc.

LyondellBasell Industries NV

Inland Technologies Inc.

D.W. Davies & Co.

Aero Sense Technologies Limited

Report Scope:

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

De-Icing Fluid Market, By Type:

Type I

Type II

Type III

Type IV

De-Icing Fluid Market, By Application:

Commercial

Non-Commercial

De-Icing Fluid Market, By Composition:

Ethylene Glycol

Propylene Glycol

De-Icing Fluid 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 De-Icing Fluid Market.

Available Customizations:

Global De-Icing Fluid 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. GLOBAL DE-ICING FLUID MARKET: DEMAND-SUPPLY ANALYSIS

- 4.1. By Region

5. GLOBAL DE-ICING FLUID MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Type I, Type II, Type III, Type IV)
 - 5.2.2. By Application (Commercial and Non-Commercial)

- 5.2.3. By Composition (Ethylene Glycol and Propylene Glycol)
- 5.2.4. By Region
- 5.2.5. By Company (2022)
- 5.3. Market Map
 - 5.3.1. By Type
 - 5.3.2. By Application
 - 5.3.3. By Composition
 - 5.3.4. By Region

6. ASIA PACIFIC DE-ICING FLUID 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 Application
 - 6.2.3. By Composition
 - 6.2.4. By Country
- 6.3. Asia Pacific: Country Analysis
 - 6.3.1. China De-Icing Fluid 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 Application
 - 6.3.1.2.3. By Composition
 - 6.3.2. India De-Icing Fluid 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 Application
 - 6.3.2.2.3. By Composition
 - 6.3.3. Australia De-Icing Fluid 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 Application

- 6.3.3.2.3. By Composition
- 6.3.4. Japan De-Icing Fluid 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 Type
 - 6.3.4.2.2. By Application
 - 6.3.4.2.3. By Composition
- 6.3.5. South Korea De-Icing Fluid 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 Type
 - 6.3.5.2.2. By Application
 - 6.3.5.2.3. By Composition

7. EUROPE DE-ICING FLUID 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 Application
 - 7.2.3. By Composition
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. France De-Icing Fluid 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 Application
 - 7.3.1.2.3. By Composition
 - 7.3.2. Germany De-Icing Fluid 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 Application

- 7.3.2.2.3. By Composition
- 7.3.3. Spain De-Icing Fluid 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 Application
 - 7.3.3.2.3. By Composition
- 7.3.4. Italy De-Icing Fluid 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 Application
 - 7.3.4.2.3. By Composition
- 7.3.5. United Kingdom De-Icing Fluid 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 Application
 - 7.3.5.2.3. By Composition

8. NORTH AMERICA DE-ICING FLUID 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 Application
 - 8.2.3. By Composition
 - 8.2.4. By Country
- 8.3. North America: Country Analysis
 - 8.3.1. United States De-Icing Fluid 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 Application

- 8.3.1.2.3. By Composition
- 8.3.2. Mexico De-Icing Fluid 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 Application
 - 8.3.2.2.3. By Composition
- 8.3.3. Canada De-Icing Fluid 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 Application
 - 8.3.3.2.3. By Composition

9. SOUTH AMERICA DE-ICING FLUID 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 Application
 - 9.2.3. By Composition
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil De-Icing Fluid 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 Application
 - 9.3.1.2.3. By Composition
 - 9.3.2. Argentina De-Icing Fluid 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 Application

- 9.3.2.2.3. By Composition
- 9.3.3. Colombia De-Icing Fluid 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 Application
 - 9.3.3.2.3. By Composition

10. MIDDLE EAST AND AFRICA DE-ICING FLUID 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 Application
 - 10.2.3. By Composition
 - 10.2.4. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa De-Icing Fluid 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 Application
 - 10.3.1.2.3. By Composition
 - 10.3.2. Saudi Arabia De-Icing Fluid 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 Application
 - 10.3.2.2.3. By Composition
 - 10.3.3. UAE De-Icing Fluid 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 Application

- 10.3.3.2.3. By Composition
- 10.3.4. Egypt De-Icing Fluid Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By Application
 - 10.3.4.2.3. By Composition

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 DE-ICING FLUID 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. COMPETITIVE LANDSCAPE

- 15.1. Business Overview
- 15.2. Company Snapshot
- 15.3. Products & Services
- 15.4. Current Capacity Analysis
- 15.5. Financials (In case of listed companies)
- 15.6. Recent Developments
- 15.7. SWOT Analysis

- 15.7.1. Clariant International Ltd.
- 15.7.2. The Dow Chemical Company
- 15.7.3. Kilfrost Ltd.
- 15.7.4. Proviron Holding NV
- 15.7.5. Cryotech Deicing Technology
- 15.7.6. Lnt Services, Inc.
- 15.7.7. LyondellBasell Industries NV
- 15.7.8. Inland Technologies Inc.
- 15.7.9. D.W. Davies & Co.
- 15.7.10. Aero Sense Technologies Limited

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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