

South America Water and Wastewater Treatment Chemicals Market By Chemical Type (Coagulant & Flocculant, Biocide & Disinfectant, Corrosion & Scale Inhibitor, pH Adjuster, Others), By End User (Oil & Gas, Pharmaceutical, Chemicals, FMCG, Others), By Region, Competition, Forecast and Opportunities, 2018-2028F

<https://marketpublishers.com/r/S308C3D49EEEN.html>

Date: November 2023

Pages: 189

Price: US\$ 4,400.00 (Single User License)

ID: S308C3D49EEEN

Abstracts

South America Water and Wastewater Treatment Chemicals Market has valued at USD1.66 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 3.63% through 2028. A combination of various interrelated factors, including increased industrialization driven by economic growth, stringent regulatory frameworks to protect the environment, and heightened environmental awareness among stakeholders, is fueling the remarkable growth of the water and wastewater treatment chemicals industry in South America. This article delves into these significant factors and explores the immense potential of the South American market within the global landscape of water and wastewater treatment chemicals.

Industrialization and urbanization, two primary drivers of the South American water and wastewater treatment chemicals market, have profound implications. As industries expand and flourish, the volume of wastewater they generate also rises proportionally. To ensure environmental sustainability, this wastewater requires effective treatment before being safely discharged into the ecosystem, thereby creating a considerable demand for advanced treatment chemicals. Additionally, rapid urbanization in South America leads to a surge in domestic water consumption and subsequent wastewater production, further intensifying the need for reliable treatment chemicals to maintain water quality standards.

Similar to many regions across the globe, South American countries have implemented rigorous regulatory frameworks mandating the proper treatment of wastewater before its discharge. These regulations serve as a crucial safeguard to protect the environment and public health. Industries and municipalities are required to meet specific standards for wastewater treatment to ensure compliance. As a result, the regulatory pressure exerted by these stringent measures significantly amplifies the demand for water and wastewater treatment chemicals.

Notably, there is an increasing awareness of environmental issues among the South American population. People are becoming more conscious of water pollution and its adverse impact on public health and the overall well-being of the environment. This growing concern and sense of responsibility drive the demand for effective water and wastewater treatment solutions, thus intensifying the need for high-quality treatment chemicals that can address these environmental challenges.

In conclusion, the South American water and wastewater treatment chemicals market is poised for substantial growth due to the intricate interplay of factors such as industrialization, regulatory pressure, and heightened environmental awareness. As these factors persist and gain further prominence, the market is expected to experience significant expansion and innovation in the coming years.

Key Market Drivers

Growing Demand of Water and Wastewater Treatment Chemicals from Pharmaceutical Industry

The pharmaceutical industry in South America is experiencing rapid expansion, driven by several factors including population growth, improved access to healthcare, and advancements in medical technologies. This growth, however, has led to an increase in the production of pharmaceutical wastewater, which contains various pollutants that pose risks to both human health and the environment.

These pollutants encompass active pharmaceutical ingredients (APIs), solvents, and other chemical substances used in the production of drugs. If left untreated, these contaminants can contaminate water bodies, adversely affecting aquatic life and potentially entering the human food chain.

To address this issue and prevent such contamination, the pharmaceutical industry

requires effective water and wastewater treatment solutions. This is where water and wastewater treatment chemicals play a crucial role. These chemicals are capable of removing or neutralizing pollutants present in pharmaceutical wastewater, thereby rendering it safe for either discharge or reuse.

In South America, the demand for such chemicals is on the rise due to the continuous growth of the pharmaceutical industry in the region. This increasing demand is driving the growth of the water and wastewater treatment chemicals market, which plays a vital role in ensuring the sustainability of the pharmaceutical industry.

Furthermore, as regulations pertaining to wastewater discharge become more stringent, the demand for water and wastewater treatment chemicals within the pharmaceutical industry is expected to escalate further. The combination of regulatory pressure and industry growth will continue to propel the South American market for water and wastewater treatment chemicals in the years to come.

Growing Demand of Water and Wastewater Treatment Chemicals from Chemical Industry

South America's chemical industry is experiencing rapid growth, driven by various factors such as industrialization, technological advancements, and increased domestic consumption. As this industry expands, it faces the environmental responsibility of managing the substantial volume of wastewater generated during chemical production.

Chemical manufacturing processes often result in wastewater that is laden with a wide range of pollutants, including organic compounds, heavy metals, and other hazardous substances. Without proper treatment, these pollutants can have severe environmental and health impacts.

To effectively manage this pollution, water and wastewater treatment chemicals play a crucial role. These chemicals are utilized to treat wastewater from chemical plants before it is discharged into the environment or reused within the plant. By employing these treatment chemicals, pollutants can be neutralized or removed, ensuring that the treated wastewater meets regulatory standards and is safe for discharge or reuse.

The burgeoning chemical industry in South America has led to an increased demand for water and wastewater treatment chemicals in the region. This growing demand is a significant driver of the South American water and wastewater treatment chemicals market.

Furthermore, as environmental regulations become stricter, the chemical industry's need for water and wastewater treatment chemicals is expected to rise even further. The combination of regulatory pressure and the industry's expansion is set to propel the South American market in the coming years.

In conclusion, the growing demand from the chemical industry is a significant driver of the South American water and wastewater treatment chemicals market. As the industry continues to expand and the need for effective wastewater treatment solutions becomes more pressing, this market is poised to witness substantial growth.

With the increasing importance of environmental sustainability, the role of water and wastewater treatment chemicals in managing pollution is becoming more critical than ever before. As the South American chemical industry continues to thrive, the demand for these treatment chemicals will only intensify, driving innovation and growth in the water and wastewater treatment sector.

Key Market Challenges

Volatility in Price of Raw Materials

Price volatility refers to the rate at which the price of a commodity increases or decreases for a set of returns. It is often driven by various factors such as supply disruptions, demand surges, or significant peaks and troughs in market trends. These fluctuations can have a profound impact on the water and wastewater treatment chemicals industry, as raw materials like chemical compounds, minerals, and gases are subject to these price variations.

The water and wastewater treatment chemicals market heavily relies on these raw materials, which serve as the backbone of the industry. As a result, any instability or unpredictability in their prices can significantly affect the market dynamics. This volatility poses several challenges for companies operating in this sector.

Firstly, price volatility makes it difficult for companies to accurately predict costs and set prices for their products. The constant fluctuations create an uncertain environment, making it challenging to establish stable pricing strategies. This unpredictability can lead to decreased profit margins, especially if companies are unable to pass the increased costs onto their customers.

Furthermore, high raw material costs resulting from price volatility can force companies to reassess their production strategies. In order to stay competitive, they may need to explore alternative materials, adapt their products, or even consider diversifying their product offerings. This adaptability becomes crucial in mitigating the impact of price fluctuations and maintaining a sustainable business model in an ever-changing market.

In conclusion, price volatility in the water and wastewater treatment chemicals industry can have far-reaching consequences. It affects not only the financial stability of companies but also their ability to plan, innovate, and adapt to market dynamics. Understanding and effectively managing this volatility is essential for companies in this sector to thrive and maintain a competitive edge in the long run.

Key Market Trends

Growing Investments in Infrastructure Development

Across South America, there is a growing recognition of the utmost importance of investing in water and wastewater treatment infrastructure. These investments encompass a wide range of projects, including river cleaning initiatives, sewage treatment plants, and broader sanitation infrastructure development.

Looking back to the early 1900s in Britain, investments in public health, local transport, water, electricity, and gas accounted for a significant portion - as much as one-quarter - of all capital formation. Following a similar trajectory, South America is also making remarkable strides in infrastructure development.

The role of infrastructure development in water and wastewater treatment cannot be overstated. By making efficient and strategic investments in wastewater and other sanitation infrastructure, a host of benefits can be achieved, including improved public health outcomes, attainment of environmental objectives, and contribution to sustainable development.

Additionally, with the continuous rise in population across the region, the demand for clean water and effective wastewater management is on the ascent. Consequently, there is a parallel growth in the need for water and wastewater treatment chemicals, which acts as a driving force for the market.

The increasing investments in infrastructure development have a direct and tangible impact on the South American water and wastewater treatment chemicals market. As

new projects are initiated and existing facilities are upgraded, the demand for treatment chemicals experiences a corresponding surge, thereby propelling market growth.

Moreover, these investments signify a long-term commitment to enhancing water and wastewater treatment practices, which augurs well for the sustained growth of the market. They also reflect the growing awareness and consciousness of environmental concerns, as well as the importance of embracing sustainable practices - both of which are prevailing trends that further bolster the market's progression.

Segmental Insights

Chemical Type Insights

Based on the category of chemical type, the coagulant & flocculant segment emerged as the dominant player in the South America market for water and wastewater treatment chemicals in 2022. One of the main reasons for the dominance of coagulants and flocculants in water treatments lies in their crucial role in facilitating effective sedimentation in sludge treatment techniques. By working in tandem, these vital chemicals play a key role in efficiently removing suspended solids, organic matter, and other pollutants from various water sources, ensuring the provision of clean and safe water for communities.

In South America, the demand for coagulants and flocculants is experiencing a significant upsurge, driven by the growing need for clean water and effective wastewater management. As water scarcity and pollution continue to pose challenges, the cost-effective solution provided by these chemicals becomes increasingly valuable. Compared to other treatment methods, coagulants and flocculants offer an economical way of treating large volumes of water, making them the preferred choice for many treatment facilities seeking efficient and sustainable water treatment solutions.

End User Insights

The oil & gas segment is projected to experience rapid growth during the forecast period. South America, a continent rich in natural resources, is home to several countries with robust oil and gas sectors, such as Brazil, Venezuela, and Argentina. These countries heavily rely on these industries, which necessitate extensive water treatments for their operations. The demand for water treatment chemicals in the region is therefore driven up significantly.

The oil and gas industries in South America generate a substantial amount of wastewater that requires proper treatment before disposal. To ensure the safe and environmentally responsible handling of this wastewater, the use of various chemicals like coagulants, flocculants, and disinfectants is indispensable. This necessity creates a considerable demand for water and wastewater treatment chemicals within the sector.

In addition to operational requirements, strict environmental regulations in South America mandate the treatment of wastewater from oil and gas operations. Non-compliance with these regulations can result in hefty fines and penalties. Consequently, companies in the oil and gas sector are compelled to procure water and wastewater treatment chemicals to ensure compliance and avoid legal consequences.

As the oil and gas sector in South America continues to expand, driven by factors such as increasing energy demands and exploration activities, the demand for water treatment chemicals is expected to grow. For instance, Brazil's oil and gas sector is predicted to experience significant growth, which will likely further boost the demand for water treatment chemicals in the country.

Regional Insights

Brazil emerged as the dominant player in the South America Water and Wastewater Treatment Chemicals Market in 2022, holding the largest market share in terms of value. Brazil's robust industrial sector encompasses a diverse range of industries, including food and beverage, oil and gas, and others. These industries heavily rely on extensive water treatments to support their operations effectively. The treatment of wastewater from these sectors involves the utilization of various specialized chemicals, which in turn creates a substantial demand for water and wastewater treatment chemicals in the country.

With its large population, Brazil faces a significant demand for clean and safe water. To meet this demand, the country relies on the use of water treatment chemicals to ensure that the water supply is free from contaminants and suitable for consumption by its citizens.

In an effort to protect the environment, Brazil has implemented stringent environmental regulations that mandate the treatment of wastewater before it is discharged. These regulations have played a crucial role in driving up the demand for water and wastewater treatment chemicals, as industries strive to comply with the necessary standards and minimize their environmental impact.

Key Market Players

Kurita do Brasil LTDA

BASF S/A

Kemira Chemicals Brasil LTDA

Solenis Especialidades Quimicas LTDA

Buckman Laboratories Chile LTDA

Lonza do Brasil LTDA

Akzo Nobel LTDA - Holding

Report Scope:

In this report, the South America Water and Wastewater Treatment Chemicals Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

South America Water and Wastewater Treatment Chemicals Market, By
Chemical Type:

Coagulant & Flocculant

Biocide & Disinfectant

Corrosion & Scale Inhibitor

pH Adjuster

Others

South America Water and Wastewater Treatment Chemicals Market, By End
User:

Oil & Gas

Pharmaceutical

Chemicals

FMCG

Others

South America Water and Wastewater Treatment Chemicals Market, By Region:

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the South America Water and Wastewater Treatment Chemicals Market.

Available Customizations:

South America Water and Wastewater Treatment Chemicals 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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