

India Liquid Chlorine Market By Sales Channel (Direct/Institutional Sales, Retail Sales, Others), By Application (Water Treatment, Agriculture, Pharmaceuticals, Chemical Processing, Pulp & Paper, Textiles, Paints and Coatings, Others), By Region and Competition, Forecast & Opportunities, 2020-2030F

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Report description:

India Liquid Chlorine Market was volume at 2.48 Million Tonnes in 2024 by volume and is expected to reach 3.02 Million Tonnes by 2030 with a CAGR of 3.51% during the forecast period. The Indian liquid chlorine market holds a pivotal role within the country's chemical industry, serving as a foundational chemical compound with a broad spectrum of applications. Liquid chlorine, a pale green gas when compressed, is vital in various industrial processes, including water purification, chemicals manufacturing, and pharmaceuticals production. India, with its burgeoning industrial and manufacturing sectors, is witnessing remarkable growth in the liquid chlorine market.

The Indian liquid chlorine market has experienced robust growth in recent years, propelled by several factors contributing to the industry's vibrancy. India's expanding chemical and pharmaceutical sectors, coupled with the essential role of liquid chlorine in water treatment and disinfection, have resulted in an escalating demand for this chemical compound.

Liquid chlorine plays a pivotal role in water treatment, ensuring the safety and quality of drinking water. With the growing urbanization and increasing focus on public health, the demand for liquid chlorine for water disinfection is on the rise.

The chemical industry in India is a significant consumer of liquid chlorine. It is used in the production of various chemicals, including hydrochloric acid, sodium hypochlorite, and organic compounds. As the chemical sector expands, so does the demand for liquid chlorine. The pharmaceutical industry relies on liquid chlorine for the synthesis of pharmaceuticals and active pharmaceutical ingredients (APIs). The growth of the pharmaceutical sector in India contributes to the demand for liquid chlorine. Liquid chlorine is highly reactive and poses safety risks, particularly during transportation and handling. Adherence to safety protocols is essential. The production and use of liquid chlorine can generate environmental concerns, particularly when chlorine gas is released. Stringent environmental compliance is necessary.

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There is a growing emphasis on adopting green and sustainable technologies in liquid chlorine production. The industry is exploring alternative and eco-friendly methods to reduce its environmental impact. Research into advanced disinfection technologies and processes, such as electrochlorination, is gaining momentum. These technologies aim to enhance water treatment efficiency and reduce chemical waste.

The outlook for the Indian liquid chlorine market is promising. As India's population continues to grow, the importance of safe and reliable water treatment methods becomes increasingly evident, fueling the demand for liquid chlorine. Additionally, the chemical and pharmaceutical sectors are expected to expand further, sustaining the need for liquid chlorine in various industrial processes. The industry is also anticipated to adapt to emerging trends and technologies, particularly those focused on reducing its environmental footprint. Green and sustainable approaches to liquid chlorine production are expected to gain traction, aligning with global efforts to promote environmental responsibility.

Key Market Drivers

Growing Demand for Pharmaceutical Production

The Indian pharmaceutical industry has undergone substantial growth over the past decade. Known for its robust generic drug manufacturing capabilities, India is now focusing on advanced drug formulations and active pharmaceutical ingredients (APIs). This expansion necessitates a steady and reliable supply of raw materials, including liquid chlorine, which is pivotal in the synthesis of certain APIs and pharmaceutical intermediates.

Liquid chlorine's role in pharmaceutical production is multifaceted. It is used in the chlorination process to produce chemicals that are crucial for manufacturing drugs, such as chlorinated intermediates and other compounds. These chemicals are integral to the development of a wide range of pharmaceutical products, from antibiotics to antivirals. The increasing complexity of drug formulations and the rise in demand for high-quality pharmaceuticals drive the need for enhanced chlorine production capabilities. The escalating demand for healthcare products, driven by both domestic and international markets, has significantly impacted the liquid chlorine market. India, with its growing population and increasing healthcare needs, has witnessed a rise in the consumption of pharmaceutical products. This heightened demand, coupled with a surge in exports, particularly to developed economies, has spurred the need for increased production capacities.

Pharmaceutical companies are investing heavily in expanding their manufacturing facilities and upgrading their technologies to meet the growing demand. This expansion directly influences the liquid chlorine market, as it leads to a higher requirement for this chemical to support increased production volumes.

The Indian pharmaceutical industry is also navigating evolving regulatory frameworks that emphasize higher standards of quality and safety. To comply with these regulations, companies are adopting advanced production technologies that often require more refined and controlled inputs, including liquid chlorine. The integration of sophisticated technologies in drug manufacturing processes necessitates a consistent and high-quality supply of raw materials, further driving the demand for liquid chlorine. According to a 2024 report by Maersk, the Indian pharmaceutical industry, often referred to as the 'pharmacy of the world,' is experiencing remarkable growth. The industry has surged from \$40 billion in 2021 to an anticipated \$130 billion by 2030, with projections reaching \$450 billion by 2047. Not only does India meet domestic demand, but it also commands over 20% of the global pharmaceutical supply chain and fulfills approximately 60% of global vaccine needs. Additionally, it supplies 40% of the generic drugs in the US and accounts for a quarter of all medicines in the UK. This transformation highlights India's role as a dynamic force driving global healthcare advancements. Notably, India contributes more than 50-60% to UNESCO and has the highest number of USFDA-approved facilities outside the United States.

The interplay between rising pharmaceutical production and liquid chlorine demand has led to dynamic shifts in the market. Suppliers and producers of liquid chlorine are adapting to these changes by enhancing their production capabilities and optimizing supply chains. The increased demand for chlorine has prompted manufacturers to invest in state-of-the-art production facilities and infrastructure to ensure a reliable and efficient supply.

Additionally, the growth in pharmaceutical production has led to a competitive market environment where liquid chlorine suppliers must maintain stringent quality standards and offer cost-effective solutions to meet the needs of pharmaceutical companies.

Rising Demand from the Different Industry for Chemical Manufacturing

The India liquid chlorine market is experiencing robust growth, primarily propelled by the rising demand from various industries, particularly chemical manufacturing. Liquid chlorine, a versatile chemical, is used in several industrial processes, including

chemical synthesis, water treatment, and disinfection. The increasing need for liquid chlorine across diverse sectors is a major driver behind the expansion of the Indian liquid chlorine market.

One of the key factors driving the growing demand for liquid chlorine in India is the booming chemical manufacturing industry. India has emerged as a global hub for chemical manufacturing, producing a wide range of chemical products, including specialty chemicals, petrochemicals, agrochemicals, and pharmaceutical ingredients. The chemical industry is integral to India's industrial landscape, contributing significantly to the country's economic growth and export revenue.

Liquid chlorine plays a pivotal role in chemical manufacturing, especially in the synthesis of various organic compounds and specialty chemicals. It is used as a raw material, reactant, or intermediary in the production of a wide array of chemical products. As the chemical industry continues to diversify and expand its product range to meet the needs of various sectors, the demand for liquid chlorine as a core chemical reagent remains robust.

Moreover, liquid chlorine is crucial for water treatment and disinfection in India. As the population grows and urbanization increases, the demand for clean and safe water is on the rise. Liquid chlorine is widely used for water purification, disinfection, and wastewater treatment to ensure that water supplies meet quality standards. The need for reliable and effective water treatment processes further fuels the demand for liquid chlorine.

The pulp and paper industry in India relies on liquid chlorine for its bleaching process. Liquid chlorine is used as a bleaching agent in pulp and paper mills to whiten pulp and paper products. The expansion of the pulp and paper industry in response to growing domestic consumption and demand for packaging materials has contributed to the demand for liquid chlorine.

Additionally, the textile and leather industries in India utilize liquid chlorine in various processes, including disinfection, bleaching, and color removal. Liquid chlorine plays a crucial role in achieving the desired quality and appearance of textiles and leather products, supporting the growth of these industries.

The agriculture sector is another significant consumer of liquid chlorine in India. Liquid chlorine is used in the production of agrochemicals, including pesticides and herbicides, which are essential for enhancing agricultural productivity and crop yields. As India seeks to improve food security and agricultural productivity, the demand for liquid chlorine remains strong.

The pharmaceutical industry in India also relies on liquid chlorine for various applications, including the production of active pharmaceutical ingredients (APIs) and the manufacturing of chemicals for diverse industrial sectors. The growth of the pharmaceutical industry, driven by domestic and international demand for affordable and high-quality medicines, further contributes to the increasing demand for liquid chlorine.

Moreover, liquid chlorine is employed in the production of specialty chemicals used in sectors such as cosmetics, personal care products, detergents, and cleaning agents. The growing consumer demand for specialty chemicals, driven by personal hygiene, beauty products, and home care, fuels the expansion of the chemical industry and, consequently, the demand for liquid chlorine. Furthermore, as the construction and infrastructure sectors in India experience remarkable growth, the need for wastewater treatment and disinfection in these industries increases. Liquid chlorine is used to maintain water quality in construction and infrastructure projects, contributing to the expansion of the liquid chlorine market.

The Indian government's push for clean and sustainable industrial practices, as well as its focus on water resource management, aligns with the use of liquid chlorine for water treatment and disinfection, further supporting the demand for the chemical.

Increasing Acceptance for Water Treatment and Disinfection

The India liquid chlorine market is currently experiencing significant growth, largely driven by the increasing acceptance and demand for water treatment and disinfection across the country. Liquid chlorine, a versatile and effective disinfectant, plays a pivotal role in ensuring access to safe and clean water, and its usage in various applications is a primary driver behind the expansion of India's liquid chlorine market.

Urban India produces 72,368 million liters (MLD) of sewage daily, yet only 28% of this is treated and reused. The remaining untreated wastewater is discharged into groundwater, rivers, and lakes, leading to pollution, disease spread, and environmental harm. According to the 2021 National Inventory of Sewage Treatment Plants, there is a significant discrepancy between the rapid increase in sewage generation and the capacity to treat it. However, a recent report from the Council on Energy, Environment and Water (CEEW) reveals that 80% of urban India's wastewater could be treated and repurposed for non-potable uses such as irrigation. This approach has the potential to ease the strain on water bodies, reduce pollution, and enhance water security amidst climate change-induced weather events that can disrupt water supply reliability.

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One of the primary factors contributing to the surge in demand for liquid chlorine in India is the growing awareness of the importance of water treatment and disinfection. As the country's population continues to expand and urbanize, the need for access to clean and safe drinking water becomes increasingly crucial. Liquid chlorine is widely recognized as an effective agent for water disinfection and purification, making it an essential tool in addressing water quality issues.

Liquid chlorine is used in various water treatment processes, including municipal water treatment, wastewater treatment, and industrial water purification. In municipal water treatment plants, liquid chlorine is employed to disinfect water by killing harmful microorganisms, bacteria, and viruses that can cause waterborne diseases. This ensures that the water supplied to households and communities meets safety standards, thereby safeguarding public health.

Furthermore, as India's urbanization and industrialization continue to advance, the discharge of wastewater from various industrial processes has become a significant concern. Liquid chlorine plays a crucial role in the treatment of industrial wastewater, helping to remove contaminants and hazardous substances before they are discharged into the environment. This aligns with the growing emphasis on environmental sustainability and responsible wastewater management in India.

In addition to drinking water and industrial applications, liquid chlorine is used in swimming pool water treatment. Swimming pools require regular disinfection to maintain water quality and prevent the spread of waterborne diseases. Liquid chlorine is a popular choice for pool disinfection due to its effectiveness in killing harmful microorganisms and ensuring a safe and enjoyable swimming experience.

The agriculture sector in India is another area where liquid chlorine is utilized. It is used for crop irrigation and soil sterilization, contributing to improved agricultural productivity and pest control. As India continues to focus on agricultural development and food security, the demand for liquid chlorine in agriculture-related applications remains strong.

The pharmaceutical industry in India also relies on liquid chlorine for various purposes, including the production of active pharmaceutical ingredients (APIs) and the manufacturing of chemicals for diverse industrial sectors. The growth of the pharmaceutical industry, driven by domestic and international demand for affordable and high-quality medicines, further contributes to the demand for liquid chlorine.

Moreover, liquid chlorine is employed in the manufacturing of specialty chemicals used in sectors such as cosmetics, personal care products, detergents, and cleaning agents. The growing consumer demand for specialty chemicals, driven by personal hygiene, beauty products, and home care, fuels the expansion of the chemical industry and, consequently, the demand for liquid chlorine.

The Indian government's focus on clean and sustainable industrial practices, as well as its commitment to ensuring access to safe drinking water, aligns with the use of liquid chlorine for water treatment and disinfection. This commitment to environmental sustainability and public health is reflected in the regulations and guidelines that mandate water treatment and disinfection practices in various sectors.

Key Market Challenges

Highly Reactive and Safety Risks

The India Liquid Chlorine market faces considerable hindrances due to the highly reactive nature and associated safety risks of the chemical. Liquid chlorine is a potent disinfectant and is used in various industrial applications, including water treatment, chemical manufacturing, and pharmaceuticals. However, its reactivity and potential hazards pose serious safety challenges. Handling liquid chlorine requires stringent safety measures, as it can react violently with various substances, and accidental releases can lead to toxic gas cloud formation, endangering both human health and the environment. The necessity for specialized storage and transportation equipment, rigorous safety protocols, and well-trained personnel adds to operational costs and complexity.

Stringent safety regulations and increasing environmental concerns about the safe disposal of waste and emissions during chlorine production further complicate the market. To overcome these safety risks, the India Liquid Chlorine market must invest in advanced safety technologies, secure transportation and storage solutions, and focus on strict adherence to safety regulations. By ensuring safety at every step of the supply chain, the industry can continue to meet demands while mitigating risks associated with this highly reactive chemical.

Environmental Concerns

Environmental concerns are becoming significant obstacles in the India Liquid Chlorine market. Liquid chlorine is a crucial

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chemical used in water treatment, disinfection, and chemical manufacturing. However, its production and transportation raise environmental concerns due to the toxic and reactive nature of the substance.

One major issue is the accidental release of liquid chlorine, which can result in toxic gas cloud formations, posing a significant threat to human health and the environment. Storage and transportation safety requirements for liquid chlorine are stringent due to these hazards, which can increase operational costs and limit availability.

Additionally, environmental regulations are becoming more stringent, focusing on limiting the environmental impact of chemical production. The safe disposal of waste materials and the need to reduce emissions during manufacturing are vital concerns. To address these challenges, the India Liquid Chlorine market must adopt advanced safety measures, invest in secure transportation and storage solutions, and prioritize environmentally responsible production practices. By aligning with these environmental concerns, the industry can ensure the sustainable and safe use of liquid chlorine while meeting the demands of various applications.

Key Market Trends

Growing Demand for Water-Based and Eco-Friendly Coatings

The growing demand for water-based and eco-friendly coatings has become a prominent trend in the India Liquid Chlorine market. Liquid chlorine, a key chemical used in various industrial applications, plays a significant role in water treatment processes and disinfection, addressing India's escalating need for clean and safe water supplies. However, the trend towards water-based and eco-friendly coatings directly relates to the use of liquid chlorine in applications like swimming pool disinfection and wastewater treatment.

As environmental awareness and regulatory standards continue to evolve, there is an increasing preference for coatings and treatments that are less harmful to the environment and human health. Water-based and eco-friendly coatings are emerging as sustainable alternatives to traditional, solvent-based coatings, reducing volatile organic compound (VOC) emissions and minimizing the environmental impact of water treatment processes.

The shift towards these coatings also underscores the broader national focus on sustainable development and responsible environmental practices. India is actively embracing greener technologies and approaches across multiple industries, emphasizing the importance of eco-friendly solutions in water treatment and disinfection. In this context, liquid chlorine's role in water treatment is evolving to align with these sustainability goals and the growing demand for water-based and eco-friendly coatings. This trend not only benefits the environment but also reflects the nation's commitment to more responsible and sustainable water treatment practices.

Advancements in Disinfection

Advancements in disinfection techniques have emerged as a key trend in the India Liquid Chlorine market. Liquid chlorine, a powerful disinfectant, is widely utilized in India for water treatment, sanitation, and disinfection in various industries. Recent developments in disinfection processes and technologies have made liquid chlorine even more integral in safeguarding public health and ensuring the safety of water supplies.

In the face of evolving health challenges and the need for comprehensive waterborne disease prevention, advancements in disinfection are essential. Liquid chlorine plays a pivotal role in maintaining the quality and safety of drinking water, especially in areas where microbial contaminants pose a significant risk. Modern disinfection methods, which often incorporate liquid chlorine, provide more effective and efficient solutions for eliminating harmful pathogens.

Additionally, these advancements include improvements in dosing and monitoring systems, enhancing the precision and control of liquid chlorine application. This ensures that the disinfection process is both reliable and safe for human consumption.

As the importance of safe drinking water and sanitation continues to grow in India, advancements in disinfection methods, particularly those involving liquid chlorine, are playing a critical role in addressing waterborne health threats and ensuring access to clean and disease-free water. This trend underscores the ongoing commitment to public health and environmental safety in India's liquid chlorine market.

Segmental Insights

Sales Channel Insights

Based on Sales Channel, Direct/Institutional Sales have emerged as the dominating segment in the Indian market for Liquid Chlorine in 2024. In the Indian market for Liquid Chlorine, the direct/institutional sales segment has emerged as the dominant

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player, and this dominance can be attributed to several key factors. Direct/institutional sales involve selling Liquid Chlorine directly from manufacturers to institutional buyers such as water treatment plants, wastewater treatment facilities, and large-scale industrial users. This sales channel has gained prominence due to the critical role of Liquid Chlorine in water purification and sanitation, where reliability, quality, and consistency are of utmost importance.

The dominance of this segment is further underpinned by the strict regulatory standards for water quality and sanitation in India, which mandate the use of high-quality chemicals like Liquid Chlorine. Large institutional buyers prefer direct procurement to ensure a continuous and reliable supply of Liquid Chlorine, which is vital for public health and industrial processes.

Moreover, the institutional sector encompasses a wide range of applications, including municipal water treatment, swimming pool disinfection, and industrial water purification. The direct sales channel efficiently caters to the diverse needs of these institutional buyers, ensuring the delivery of Liquid Chlorine in bulk quantities.

Furthermore, direct/institutional sales often involve long-term contracts and agreements, fostering strong business relationships between manufacturers and institutional clients. The reliability and consistency offered by this sales channel make it the preferred choice for many critical applications.

Application Insights

Based on Application, Water Treatment have emerged as the fastest growing segment in India Liquid Chlorine Market during the forecast period owing to its pivotal role in ensuring safe and potable water supplies across the country. The growth of the water treatment segment can be attributed to the critical importance of Liquid Chlorine in disinfection and sanitation processes. Liquid Chlorine is a highly effective water treatment chemical, used to eliminate harmful microorganisms, bacteria, and viruses in drinking water and wastewater. Its role in safeguarding public health and preventing waterborne diseases is unparalleled.

With India's burgeoning population and urbanization, the demand for clean and safe water has grown exponentially. As a result, water treatment plants, both municipal and industrial, require a consistent and reliable supply of Liquid Chlorine to meet the stringent water quality standards set by regulatory authorities.

Moreover, Liquid Chlorine finds application in various aspects of water treatment, including municipal water disinfection, swimming pool sanitation, and industrial water purification. Its versatility in addressing a wide range of water treatment needs has contributed to its growth in this segment.

Regional Insights

Based on Region, West India have emerged as the dominating region in India Liquid Chlorine Market in 2024, propelled by a combination of industrial strength, strategic advantages, and significant demand from water treatment facilities and industrial applications. The Western region, particularly the state of Gujarat, hosts a substantial number of chemical and manufacturing industries. These sectors require Liquid Chlorine for a wide range of applications, including water treatment, chemical synthesis, and sanitation processes. The strong presence of these industries has contributed significantly to the region's dominance.

Gujarat's robust industrial infrastructure, efficient transportation networks, and access to major ports make it an ideal location for the import and distribution of Liquid Chlorine. This strategic advantage ensures a reliable supply chain for industrial and institutional buyers.

Furthermore, the region's proactive approach to environmental regulations and its commitment to water quality standards have driven the demand for Liquid Chlorine, especially in water treatment applications. In conclusion, the Western region's industrial prowess, strategic location, and focus on environmental compliance have firmly established it as the dominant player in the Indian Liquid Chlorine market, and this dominance is expected to persist as industries continue to prioritize sanitation and water quality.

Key Market Players

- Meghmani Finechem Limited
- Vizag chemical International
- Swastik Chemicals
- Lords Chloro Alkali Limited
- Shree Arbuda Chemical Industries
- Innova Corporate (India)
- Susun Industries
- Desai Industries Pvt Ltd

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□ Grandiana Universal Private Limited

□ Tata Chemicals Limited

Report Scope:

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

□ India Liquid Chlorine Market, By Sales Channel:

o Direct/Institutional Sales

o Retail Sales

o Others

□ India Liquid Chlorine Market, By Application:

o Water Treatment

o Agriculture

o Pharmaceuticals

o Chemical Processing

o Pulp & Paper

o Textiles

o Paints and Coatings

o Others

□ India Liquid Chlorine Market, By Region:

o West India

o North India

o South India

o East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Liquid Chlorine Market.

Available Customizations:

India Liquid Chlorine Market report with the given market data, TechSci 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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