

# Global Calcium Hypochlorite Market Outlook to 2027

<https://marketpublishers.com/r/GCD78F6C5CDCEN.html>

Date: January 2022

Pages: 184

Price: US\$ 4,490.00 (Single User License)

ID: GCD78F6C5CDCEN

## Abstracts

Calcium hypochlorite is an inorganic compound, supplied and marketed in the forms of granules, pellet, and powder, used as water treatment agents and as a bleaching agent due to high content of chlorine ranging from 35% to 80%, greater than sodium hypochlorite. According to BlueQuark Research & Consulting, the global Calcium hypochlorite Market is expected to witness a significant growth rate during the forecast period. The global market for calcium hypochlorite is driven by the increasing demand from the water treatment industry and also by the ongoing COVID-19 pandemic. However, the high cost of product and high capital investments required for plant set-up are anticipated to hinder the market growth opportunity to some extent.

Calcium hypochlorite is one of the most widely used bleaching, sanitation, and disinfecting agents. The outbreak of the ongoing COVID-19 pandemic has led to the change in attitudes of consumers across the globe. WHO (World Health Organization) recommends the disinfection of drinking-water using calcium hypochlorite. The main raw materials used for the production of calcium hypochlorite include calcium hydroxide, sodium hydroxide and chlorine. Chlorine has the advantage of being widely available and it dissolves easily in water. The chlorine compound most commonly used is calcium hypochlorite in powder or granule form with 35-80% chlorine concentration. Calcium hypochlorite when dissolved in water creates a dilute aqueous chlorine solution in which undissociated hypochlorous acid (HOCl) is active as the antimicrobial compound. Hypochlorites display a broad spectrum of antimicrobial activity and are effective against several common pathogens at various concentrations. There has been significant growth in the demand for disinfectants since the first quarter of 2020 owing to the increasing spread of the virus across the globe. To control the spread of the virus, people from all grounds are employing surface disinfectants on regular basis. In the year 2020, the disinfectant industry in China is anticipated to generate an output value of RMB 11.76 trillion, an increase of 14% compared to 2019. The stark growth in this year is most likely due to the higher demand created by COVID-19. In the United

States, the sales of cleaning products surged in the first week of March 2020. Aerosol disinfectants, in particular, grew by almost 400% compared to the same period in the previous year.

On 05 June 2020, The World Chlorine Council has partnered with Andrew Robertson, P.E. of Water Engineers for the Americas to produce a set of three, easy-to-use cistern disinfection posters providing pictogram directions for cleaning and disinfecting cisterns. The three posters provide cleaning and disinfecting instructions using sodium hypochlorite, calcium hypochlorite, and sodium dichloroisocyanurate.

The global Calcium Hypochlorite Market is segmented on the basis of form, application, and end-use. The end-user segment is further segmented as Water Treatment, Pulp & Paper, Textile, Food & Beverage, Agriculture, and Others. The water treatment industry was found to be the major end-user industry for calcium hypochlorite and is expected to continue its dominance during the forecast period.

Calcium hypochlorite is considered to be a strong oxidizer and an effective compound with anti-microbial properties. It is used as a multi-functional sanitizer in wastewater and drinking water treatment, irrigation, swimming pools, and spas. In municipal and wastewater treatment, calcium hypochlorite is used in all stages from surface raw water, finished water, booster stations, reservoirs, remote well sites, reclaimed water, and overflows. It is used as backup chlorination on chlorine gas treatment plants and in emergency potable and wastewater treatment situations across the globe. The use of dry calcium hypochlorite helps in eliminating some of the potential risks of using chlorine gas or liquid chlorine bleach, which results in decreased operation and maintenance costs. Calcium hypochlorite is highly popular for water sanitation among developing countries due to its relatively low initial capital costs. Manufacturers involved in the global market are continuously working to improve the design and scalability of calcium hypochlorite drinking water treatment systems and customizable chemical feed units. Currently, calcium hypochlorite is popular for its disinfecting properties in swimming pools. However, its application in drinking water and wastewater systems, building water systems, and cooling towers are consistently increasing. In the water treatment industry, calcium hypochlorite is generally supplied in powder and tablet forms. These tablets or powder can be directly mixed with the water or can be mixed with water and fed as a solution. However, a common drawback of employing calcium hypochlorite in water treatment includes the formation of calcium precipitates, which demands periodic cleaning of the storage tanks. Deposits in the chemical feed lines can be controlled by regular flushing/cleaning with vinegar and other suitable acids. The increasing demand for clean water due to rising population, rapid urbanization, and industrialization is likely

to drive the global water and wastewater treatment industry thus driving the global consumption of calcium hypochlorite in the coming years.

Based on geography, the global Calcium Hypochlorite Market is segmented into Asia Pacific, North America, South America, Europe, and Middle East & Africa. The global market for calcium hypochlorite is highly concentrated in the key regions including China, Europe, and the United States.

With the ongoing Covid-19 pandemic in the world's second-largest economy, China, the GDP growth rate for the first quarter of 2020 was -6.8% compared to the growth rate of 6.4% in the fourth quarter of 2019. Under the 13th Five-year Plan on Urban Sewage Treatment and Water Recycling Facilities Planning, the country aims to spend around RMB 559 billion (USD 87.5 billion) or 0.75% of GDP on its water treatment industry. This is likely to drive the consumption of calcium hypochlorite in the coming years. Amid the Covid-19 pandemic, there is an impact on both the production and consumption of paper in the country. Due to low business, the packaging industry has been hit hard resulting in the low demand for paper and its products. China accounts for more than a quarter of the global paper, tissue paper, and paper board production. China under its 13th 5-year plan made guidelines includes

- Implement innovative development strategy to accelerate the transition of the paper industry to high-tech and high-value-added direction.
- Further promote industry integration, make full use of domestic and overseas resources and improve the structure of raw materials.
- Promote resource recycling, strengthen cleaner production process, focus on energy saving and emission reduction, advocate green and low carbon consumption.

China imports majorly paper and pulp from other countries, and the U.S remains a major exporting partner to China. China accounted for one-third of the world's market pulp imports last decade. In 2019 there is a surge in imports of recycled pulp from the U.S from 16 thousand tons in 2018 to 239 thousand tons. During Q1 2020, due to poor domestic demand in the country, importing activity has slowed down and from Q2 2020, consumption of paper is resuming slowing as lockdown rules are getting eased. Demand for paper is driven by the growing e-commerce industry, however, the coronavirus outbreak will likely boost further online consumption in the near term as people minimize contact with the public, which will benefit the packaging paper demand, and thus giving scope for calcium hypochlorite use in paper mills operating domestically

and exporting country partners.

The major key players involved in the market include Sigura, Westlake Chemical Corporation, China Petrochemical Corporation, Tosoh Corporation, and Nippon Soda Co., Ltd. among others.

In Mar 2019, Grasim Industries signed a definitive agreement, to acquire 100% equity shareholding of Suktas India Private Limited (“SIPL”), from its current promoters, for an enterprise value of INR 165 crores.

In Feb 2020, Grasim sets up a Reverse Osmosis (RO) plant in Parmarkedhi village, Nagda MP for safe drinking water for villagers. Reverse Osmosis (RO) plant cost about INR 2 million with a capacity to process 1500 liters of drinking water in one hour.

Our Global Calcium Hypochlorite Market report provides deep insight into the current and future state of the Calcium Hypochlorite Market across various regions. The study comprehensively analyzes the Calcium Hypochlorite Market by segments based on Form (Powder, Pellet, Granules), By Application (Water Treating Agent, Bleaching Agent, House Cleaners & Detergents and Others), By End-Use (Water Treatment, Pulp & Paper, Textile, Food & Beverage, Agriculture, and Others), and by Geography (Asia Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints, along with the impact of Covid-19 are influencing the market growth in detail. The study covers & includes emerging market trend, market developments, market opportunities, market size, market analysis, market dynamics, market revenue, and challenges in the industry. This report also covers extensively researched competitive landscape sections with profiles of major companies including their market share and projects.

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ogo Barchemicals Group

on Soda Co. Ltd.

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ai Chemical Co.,Ltd.

e Chemicals

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