

Global Sulfuric Acid Market Outlook to 2027

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Abstracts

Sulfuric Acid is a clear, colorless to brownish, dense, oily, corrosive, water-miscible liquid, usually produced from sulfur dioxide. H₂SO₄ is the formula for sulfuric acid, which has a sulfur atom with two hydroxide compounds and two oxygen atoms. According to BlueQuark Research & Consulting, the global Sulfuric Acid market is expected to witness a significant growth rate during the forecasted period. Factors like increasing the use of Sulfuric Acid in the fertilizer industry, Sulfuric Acid is used as a dehydrating agent, or changing the pH (soil acidity) level are expected to drive the global Sulfuric Acid market. Further, Sulfuric Acid is widely used in the manufacture of chemicals such as hydrochloric acid, nitric acid, sulfate salts, synthetic detergents, and explosives are projected to drive the Global Sulfuric Acid Market. Furthermore, Sulfuric Acid is used in petroleum refining to wash impurities out of gasoline, and other refinery products are expected to drive the Global Sulfuric Acid Market. However, Sulfuric Acid is a very corrosive chemical, in concentrated form, can be explosive. It can cause severe skin burns, irritate the nose and throat, and causes difficulties in breathing if inhaled. It can burn the eyes, cause blindness, and can burn holes in the stomach if swallowed, which is expected to hinder the future market growth of Sulfuric Acid.

Sulfuric Acid is used to manufacture sulphuric acid-based fertilizers. Most agricultural land requires a source of sulfur to replace that used by crops or leached during rainy periods. It is used to manufacture hydrochloric acid, nitric acid, sulfate salts, synthetic detergents, and explosives. It is also used in petroleum refining and the production of rayon, a semi-synthetic, breathable material ideal for use in hot and humid countries. It is used in manufacturing lead-acid batteries used in the automotive industry. It is used in chemotherapy drugs to treat various types of cancers. Sulfuric acid is also found in other household products such as dishwasher liquid and used as a surfactant in cosmetics like Sodium Laureth Sulfate.

The fertilizer industry is the most primary and vital consumer of Sulfuric Acid and is

estimated to drive the global demand. Sulfuric acid generates phosphoric acid, making phosphate fertilizers, calcium dihydrogen phosphate, and ammonium phosphates. It is also used to make ammonium sulfate, an essential fertilizer in sulfur deficient, driving the Global Sulfuric Acid market. During FY21, the overall fertilizer production is expected to increase by ~4-6%. During the 10M FY21 period, sales climbed by 19.4% and in the future, with the increase in farmers' liquidity and good moisture level in the soil in a very productive rabi season. With the forecast of a normal monsoon and the rollout of the COVID vaccination program, it is expected to normalize the economic activities during FY22. Potato farmers spray with a solution of sulfuric acid in the fields of potatoes before harvesting so that the green tops die back and blacken within a day or two. This helps to dry out the stem and prevents them from becoming tangled in the harvesting equipment, which is projected to drive the demand for the Sulfuric Acid market. Thus, the above factors have made the fertilizer industry a vital growth segment for the Global market of Sulfuric Acid.

The Asia-Pacific is on its way to becoming the global leader in the production and consumption of Sulfuric Acid, with most of the consumption in countries like China and India. China is currently the world's largest sulfuric acid producer, whereas Canada is the world's top sulfuric acid exporter. The demand for Sulfuric Acid is increasing in the fertilizer industry as the consumer's needs are growing. Due to intrinsic modern farming methods, sulfuric acid-based fertilizers are used to improve the crop yields, which helps the farmers to generate more revenue through producing more crops is expected to drive the global Sulfuric Acid market. In the chemical industry, sulfuric acid is used to process iron, copper, and steel to clean the metal and prevent oxidation before plating it with tin or zinc, thus adding to the Sulfuric Acid market demand. Due to increasing industrialization, refining crude oil requires an acid catalyst, and sulfuric acid is often used for this purpose, increasing the demand for Sulfuric Acid. In the textile industry, wood cellulose fibers are dissolved in a Tetra Amine Copper (II) solution, resulting in a thick blue liquid. This viscous blue liquid is then injected into sulfuric acid, resulting in rayon fibers, driving the Global Sulfuric Acid Industry market. In the automotive industry for cars and trucks, sealed unit lead-acid type batteries are used in which sulfuric acid is used in a dilute form to act as an electrolyte to allow the flow of electrons between the plates in the battery, thus driving the Global Sulfuric Acid Industry. Sulfuric acid is a type of active pharmaceutical ingredient manufactured by using sulfuric acid is the alkylating agent commonly used in chemotherapy, driving the global Sulfuric Acid market. Therefore, the mentioned factors have made the Asia Pacific region vital for developing Sulfuric Acid.

Some of the market's key players are The Mosaic Company, Aurubis AG, BASF SE,

Ineos Group Ltd, Boliden AB, among others.

In January 2022, a team of researchers led by Prof. Zhang Weijun from the Hefei Institutes of Physical science (HFIPS) of the Chinese Academy of Science (CAS), in collaboration with Scientists from Synchrotron SOLEIL, France, investigated the vacuum ultraviolet photoionization of the sulfuric acid, using the state of the art method of double imaging photoelectron photoion coincidence complemented with theoretical calculations.

In November 2021, Coromandel International Limited, the country's second-largest phosphoric fertilizer company, which is part of the Murugappa Group, announced the start of the project to build a new sulfuric acid plant with a planned capacity of 1650 metric tonnes per day at its fertilizer complex in Vishakhapatnam for INR 400 crore.

In January 2020, DuPont Clean Technologies welcomed 60 key members of the sulfuric acid industry of the Indian subcontinent to a specialist sulfuric acid symposium in Hyderabad.

Global Sulfuric Acid Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Sulfuric Acid market by segmenting based on the By Type (Dilute Sulfuric Acid (10%), Battery Acid (33.5%), Chamber or Fertilizer Acid (62.18%), Tower Or Glover Acid (77.67%), Concentrated Sulfuric Acid (98%), Others), By Manufacturing Process (Oxidation of Sulfur to Sulfur Dioxide, Catalytic Oxidation of Sulfur Dioxide to Sulfur Trioxide, Hydration of Sulfur Trioxide to Sulfuric Acid, Others), By Application (Fertilizers, Chemical, Petroleum Refining, Textile, Automotive, Pharmaceutical, Others) and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

Contents

1. Executive Summary

2. Research Scope and Methodology

- 2.1 Aim & Objective of the study
- 2.2 Market Definition
- 2.3 Study Information
- 2.4 General Study Assumptions
- 2.5 Research Phases

3. Market Analysis

- 3.1 Introduction
- 3.2 Market Dynamics
 - 3.2.1 Drivers
 - 3.2.2 Restraints
- 3.3 Market Trends & Developments
- 3.4 Market Opportunities
- 3.5 Feedstock Analysis
- 3.6 Trade Analysis
- 3.7 Price Trend Analysis
- 3.8 Supply Analysis
- 3.9 Regulatory Policies
- 3.10 Analysis of Covid-19 Impact

4. Industry Analysis

- 4.1 Supply Chain Analysis
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Competition in the Industry
 - 4.2.2 Potential of New Entrants into the Industry
 - 4.2.3 Bargaining Power of Suppliers
 - 4.2.4 Bargaining Power of Consumers
 - 4.2.5 Threat of substitute products

5. Market Segmentation & Forecast

- 5.1 By Type
 - 5.1.1 Dilute Sulfuric Acid (10%)
 - 5.1.2 Battery Acid (33.5%)

- 5.1.3 Chamber or Fertilizer Acid (62.18%)
- 5.1.4 Tower Or Glover Acid (77.67%)
- 5.1.5 Concentrated Sulfuric Acid (98%)
- 5.1.6 Others
- 5.2 By Raw Materials
 - 5.2.1 Sulfur Compound
 - 5.2.2 Pyrite Ore
 - 5.2.3 Air
 - 5.2.4 Platinum
 - 5.2.5 Vanadium Pentoxide
 - 5.2.6 Water
 - 5.2.7 Others
- 5.3 By Manufacturing Process
 - 5.3.1 Oxidation of Sulfur to Sulfur Dioxide
 - 5.3.2 Catalytic Oxidation of Sulfur Dioxide to Sulfur Trioxide
 - 5.3.3 Hydration of Sulfur Trioxide to Sulfuric Acid
 - 5.3.4 Others
- 5.4 By Application
 - 5.4.1 Fertilizers
 - 5.4.2 Chemical
 - 5.4.3 Petroleum Refining
 - 5.4.4 Textile
 - 5.4.5 Automotive
 - 5.4.6 Pharmaceutical
 - 5.4.7 Others

Regional Market Analysis

- 6.1 North America
 - 6.1.1 United States
 - 6.1.2 Canada
 - 6.1.3 Mexico
- 6.2 Europe
 - 6.2.1 Germany
 - 6.2.2 United Kingdom
 - 6.2.3 Italy
 - 6.2.4 France
 - 6.2.5 Spain
 - 6.2.6 Rest of Europe
- 6.3 Asia-Pacific

- 6.3.1 China
- 6.3.2 India
- 6.3.3 Japan
- 6.3.4 South Korea
- 6.3.5 Rest of Asia-Pacific
- 6.4 South America
 - 6.4.1 Brazil
 - 6.4.2 Argentina
 - 6.4.3 Rest of South America
- 6.5 Middle East & Africa
 - 6.5.1 South Africa
 - 6.5.2 Saudi Arabia
 - 6.5.3 Rest of Middle East & Africa

Company Profiles

- Mosaic Company
- ubis AG
- EF SE
- s Group Ltd
- den AB
- o Nobel N.V.
- den Saudi Arabian Mining Co.
- ryon
- ssure Vessel Service, Inc.
- oupe Chimique Tunisien SA
- noli Intermediate India Pvt Ltd
- rium Inc.
- antor Performance Materials Inc
- astar Chemicals Inc
- ta Chemicals Limited
- companies is not exhaustive

Competitive Landscape

- of Notable Players in the Market
- A, JV, and Agreements
- ket Share Analysis
- ategies of Key Players

Conclusions and Recommendations

List Of Tables

LIST OF TABLES

Global Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

North America Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

United States Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Canada Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Mexico Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Europe Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

United Kingdom Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Germany Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Other Supporting Charts

Italy Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

France Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Spain Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Rest of Europe Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

South America Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Brazil Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Argentina Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Rest of South America Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Asia-Pacific Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

China Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

India Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Japan Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

South Korea Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

ASEAN Countries Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Rest of Asia-Pacific Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Middle East & Africa Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Saudi Arabia Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

South Africa Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Rest of Middle-East & Africa Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Fertilizers - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Chemical - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Petroleum Refining - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Textile - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Automotive - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Pharmaceutical - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

Others - Sulfuric Acid Market Size, Market Growth & Market Forecast Volume(in Kilo ton), 2017-2027

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