

Global Bromine Market Outlook to 2027

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Abstracts

Bromine (Br) is a dark-reddish, non-metallic, fuming, toxic liquid with atomic number 35, a member of the halogen group obtained from natural brines and ocean water, liquid at room temperature dissolves in water, and has a bleach-like suffocating odor. According to BlueQuark Research & Consulting, the global Bromine market is expected to witness a significant growth rate during the forecasted period. The chemicals in Flame Retardants such as polybrominated biphenyl, polybrominated diphenyl ether, hexabromocyclododecane, and tetrabromobisphenyl are made using bromine, is expected to drive the global market. Further, in Agriculture Chemicals, Bromine compounds are effective pesticides used in soil fumigants in agriculture, fruit-growing, and prevent pests from attacking stored grains are projected to drive the global market. Furthermore, the bromine-based biocide is used to maintain microbiological control in cooling systems where conditions are ideal for bacteria growth is expected to drive market growth. However, Bromine is corrosive to human tissue, and its vapor is toxic when inhaled cause eyes and throat irritation are expected to hinder the global market growth.

Bromine is used in manufacturing flame retardants and agricultural chemicals such as pesticides, insecticides, and soil fumigants. It is used in biocides for industrial water treatments and cooling systems. Bromine plays a vital role in all photochemical methods applied in photography. In the textile, industry bromine is used for wool treatment and dyeing processes. Bromine is used as a preservative and oxidant in the food industry.

The Flame Retardant Industry is the most vital consumer of Bromine and is projected to drive the Global Market. Brominated flame retardants are used in printed circuit boards, including connectors, electric cables, and plastic covers. Brominated flame retardants are a mixture of artificial chemicals used in various products, including industrial use, making them less flammable, making the Global Bromine Market bound to rise. According to Albemarle Corporation, in Q3 2021, the net sales of Bromine were USD

278 million, which is increased by 17% from the previous year. Flame retardants consume about 60% of Bromine. Brominated fire retardants are used in innovative materials in trains, ships, and road vehicles that can be used safely and meet strict international fire safety standards, demanding the industry shoot, thus driving the Global Bromine Industry. Therefore the use of Bromine in the flame retardant industry is expected to grow and drive the overall market in the future.

The Asia-Pacific region is expected to be the leader in the production and consumption of Bromine, with most of the consumption in countries like China and India. Due to rapid industrialization, Bromine-based fire retardants have been added to consumer products to reduce fire-related injury and property damage, driving the demand for Bromine in the Global market. Due to the increasing population, which leads to a growing need for food, Bromine-based agricultural chemicals are used to exterminate soil pests. Due to its proven efficiency and helps to improve crop quality, the demand for Bromine is increasing in the Global Market. Due to the rapid increase in urbanization, biocides are used to prolong the shelf life and safeguard the quality of different products such as cosmetics, glues and sealers, cleaning materials, etc., which is expected to drive the demand for Bromine in the market. Silver bromide is photosensitive and used in photography as a component of emulsion, which helps create the image. In the textile industry, sodium bromate is used for wool treatment, dyeing processes, and bleaching & fading jeans. In the food industry, potassium bromate is used as an oxidant and preservative in beer, baking flour, and cheese production, and it is expected to drive the demand for Bromine in the Global Market. The mentioned factors have made the Asia-Pacific an essential region for growth in the Bromine Market.

Some of the market's key players are ICL Group Ltd, Gulf Resources Inc., Albemarle Corporation, Jordan Bromine Company Limited, Tosoh Corporation, among others.

In November 2020, BSEF, the international bromine council, developed an innovative brominated polymeric flame retardant alternative to hexabromocyclododecane, which meets the environmental requirement of flame retardant efficiency, superior, and more sustainability.

Global Bromine Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Bromine market by segmenting based on the By Isotope (Bromine-79, Bromine-81), By Application (Flame Retardant, Agricultural Chemicals, Biocides, Photography, Textile, Food, 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 Isotope
 - 5.1.1 Bromine-79
 - 5.1.2 Bromine-81

5.2 By Application

- 5.2.1 Flame Retardant
- 5.2.2 Agricultural Chemicals
- 5.2.3 Biocides
- 5.2.4 Photography
- 5.2.5 Textile
- 5.2.6 Food
- 5.2.7 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 United Kingdom
- 6.2.2 Germany
- 6.2.3 Italy
- 6.2.4 France
- 6.2.5 Spain
- 6.2.6 Rest of Europe

6.3 South America

- 6.3.1 Brazil
- 6.3.2 Argentina
- 6.3.3 Rest of South America

6.4 Asia-Pacific

- 6.4.1 China
- 6.4.2 India
- 6.4.3 Japan
- 6.4.4 South Korea
- 6.4.5 Rest of Asia-Pacific

6.5 Middle East & Africa

- 6.5.1 Saudi Arabia
- 6.5.2 South Africa
- 6.5.3 Rest of Middle East & Africa

Company Profiles

Group Ltd.

Resources Inc.

Marle Corporation
lan Bromine Company Limited
bh Corporation
A Chemicals Limited
kess AG
lustan Salts Limited
RA Technologies, Inc
neywell International Inc
aris ChemTech Industries Limited
emtura Corporation
tyesh Brinechem Private Limited
rekop Bromine
omine Compounds Ltd
companies is not exhaustive

Competitive Landscape

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

Conclusions and Recommendations

List Of Tables

LIST OF TABLES

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

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

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

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

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

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

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

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

Other Supporting Charts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flame Retardant - Bromine Market Size, Market Growth & Market Forecast Volume(in
Kilo ton), 2017-2027

Agricultural Chemicals - Bromine Market Size, Market Growth & Market Forecast
Volume(in Kilo ton), 2017-2027

Biocides - Bromine Market Size, Market Growth & Market Forecast Volume(in Kilo ton),
2017-2027

Photography - Bromine Market Size, Market Growth & Market Forecast Volume(in Kilo
ton), 2017-2027

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

Food - Bromine Market Size, Market Growth & Market Forecast Volume(in Kilo ton),
2017-2027

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

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