Bromine - Global Strategic Business Report

Description: This report analyzes the worldwide markets for Bromine in Metric Tons by the following End Use Segments: Flame Retardants, Drilling Fluids, Organic Intermediates, Water-Treatment Chemicals, and Other Applications.

The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World. Annual estimates and forecasts are provided for the period 2014 through 2022. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs. The report profiles 30 companies including many key and niche players such as -

Albemarle Corporation
Arab Potash Company
Chemada Fine Chemicals Company Ltd.
Chemtura Corporation
Gulf Resources Inc.

Contents:

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS
Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW
Bromine
A Prelude
Global Bromine Market Overview and Outlook
Asia-Pacific Emerges as the Largest Consumer of Bromine
Market Restraints
Competitive Scenario
ICL: the Largest Bromine Producer
Table 1: Leading Players in the Global Bromine Market (2015): Percentage Market Share Breakdown of Production Capacity for ICL, Jordan Bromine, Albemarle, Chinese Companies, Chemtura, and Others (includes corresponding Graph/Chart)
Reserves and Production Statistics
Table 2: Global Bromine Reserves by Country (Thousand Metric Tons) (includes corresponding Graph/Chart)
Table 3: Select Bromine Producing Countries (2013-2015): Annual Production in Thousand Metric Tons by Country (includes corresponding Graph/Chart)

2. END-USE APPLICATIONS
Large Bromine Producers in Distress
New Applications to the Rescue
Brominated Polymeric Flame Retardants to Witness Growth
Concerns of Bromine Usage in Electronics Casings
Increasing Activity in the Oil & Gas Sector Bodes Well for Bromine Demand for Drilling Applications
Table 4: Global Oil & Gas Demand (in Million Tons of Oil Equivalent): 2000, 2005, 2010, 2015, 2020, 2025, 2030, & 2035 (includes corresponding Graph/Chart)
Organic Intermediates to Emerge As Second Largest End-Use Application for Bromine
Bromine Based Flow Batteries to Witness Robust Growth with Rising demand for Grid Energy Storage Systems
Key Advantages of Large Scale Electrochemical Energy Storage Technologies
Energy Storage Technologies: Key Features Comparison for NaS Battery, Lithium-ion Battery, and Flow Battery Technology

Research Ongoing for Developing Cheaper Batteries for Grid Electricity Storage
Indispensable Nature of Rubber in Various Applications Form a Strong Base for Growth of Bromine
Increasing Demand for Clean Water Drives Bromine Application as Disinfectant and Fumigant
End-Use Application Areas in Industrial Water Treatment Sector and Role of Bromine
Bromine’s Key Role in Reduction of Mercury Emission: Strong Growth Driver
Increasing Use of Bromine in Pharmaceuticals Add to Growth
Brominated Pesticides Usage in Pesticides Will Add to Growth

Market Issues
Environmental Issues Associated with Bromine Lead to Increasing Demand for Alternative Products
Alternatives to Methyl Bromide

Need of the Hour

3. PRODUCT OVERVIEW

Air Blowing Process
Steaming Out Process
Derivatives of Bromine
Various forms of Bromine
Calcium Bromide (CaBr2)
Effectiveness of Calcium Bromide in Reducing Mercury Emission
Table 5: Mercury-Reduction Capability of Select APC Systems
Potassium Bromide (KBr)
Methyl Bromide
Legal Issues Related to Methyl Bromide
Sodium Bromide
Applications of Bromine
Water Purification
Agriculture
Photography
Pharmaceutical Industry
Automobile Industry
Flame Retardants
Kinds Of Flame Retardants
Brominated Flames Retardants
Kinds of BFR
Biocides

4. PRODUCT INTRODUCTIONS/INNOVATIONS

Threshold Initiates Phase 2 Clinical Trial of Tarloxotinib Bromide
WEW Introduced 8,350-Liter (2,205-Gal-Lon) Bromine Tank
Boehringer Ingelheim Rolls Out STIOLTO RESPIMAT
Elestor Develops Hydrogen Bromide Flow Battery
ICL Installs Bromine-Based Battery

5. RECENT INDUSTRY ACTIVITY

ICL’s Industrial Products Segment Divests Clearon
Albemarle Inks an Agreement with ICL
Albemarle Completes Divestiture of Martinswerk Business
Chemetall Takes Over Shanghai Chemetall Joint Venture
Albemarle Completes Acquisition of Rockwood Holdings
Tosoh Inks Agreement with Chemtura for Distribution of Emerald Innovation® 1000
Gulf Resources Acquires Shouguang City Rongyuan Chemical
Albemarle Inks Agreement with ICL
RedFlow Inks an Agreement with SMS Global
Jordan Bromine Expands Bromine Capacity
Albemarle Announces Successful Commissioning of Jordan Bromine Company’s First Phase of Expansion

6. FOCUS ON SELECT PLAYERS

Albemarle Corporation (US)
Arab Potash Company (Jordan)
Chemada Fine Chemicals Company Ltd. (Israel)
Chemtura Corporation (US)
Biolab, Inc. (US)
Gulf Resources Inc., (China)
Hindustan Salts Limited (India)
Honeywell International Inc. (US)
Israel Chemicals Limited (Israel)
ICL-IP America, Inc. (US)
Dead Sea Bromine Company Ltd. (Israel)
Jordan Bromine Company Ltd. (Jordan)
Perekop Bromine (Ukraine)
Shouguang Luyuan Salt Chemical Co. Ltd (China)
Solaris ChemTech Ltd. (India)
Tata Chemicals Ltd. (India)
Tetra technologies, Inc. (US)
The Dow Chemical Company (US)
Tosoh Corporation (Japan)

7. GLOBAL MARKET PERSPECTIVE
Table 6: World Recent Past, Current & Future Analysis for Bromine by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets
Independently Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022
(includes corresponding Graph/Chart)
Table 7: World 9-Year Perspective for Bromine by Geographic Region
Percentage Breakdown of Volume Consumption for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan),
Latin America and Rest of World Markets for Years 2014, 2016 and 2022 (includes corresponding
Graph/Chart)
Table 8: World Recent Past, Current & Future Analysis for Bromine by Application
Flame Retardants, Drilling Fluids, Organic Intermediates, Water Treatment Chemicals, and Others Markets
Independently Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022
(includes corresponding Graph/Chart)
Table 9: World 9-Year Perspective for Bromine by Application
Percentage Breakdown of Volume Consumption for Flame Retardants, Drilling Fluids, Organic Intermediates,
Water Treatment Chemicals, and Others Markets for Years 2014, 2016 and 2022 (includes corresponding
Graph/Chart)

III. MARKET
1. THE UNITED STATES
A. Market Analysis
Current & Future Analysis
Competitive Scenario
Table 10: The US Bromine Market by Leading Player (2015): Production Capacity in Kilo Metric Tons for
Albemarle and Chemtura (includes corresponding Graph/Chart)
Opportunity Indicators
Table 11: Projected Growth (%) of the US Construction Market over the Period 2012-2020 by Sector (includes
corresponding Graph/Chart)
Table 12: Growing Residential Construction in the US (2007-2017P): Number of Housing Starts by Type
Single-Family Units and Multi-Family Units (in '000) (includes corresponding Graph/Chart)
EXIM Statistics
Table 13: The US Exports for Bromine or Fluorine (2014 & 2015): Breakdown of Exports Value by Destination
Country (US$) (includes corresponding Graph/Chart)
Table 14: The US Imports for Bromine or Fluorine (2014 & 2015): Breakdown of Imports Value by Country of
Origin (in US$) (includes corresponding Graph/Chart)
Product Launches
Strategic Corporate Developments
Select Key Players
B. Market Analytics
Table 15: The US Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual
Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

2. CANADA
A. Market Analysis
Current and Future Analysis
Recovery in Construction Activity to Spur Growth
Table 16: Housing Starts in Canada (2008-2015): Breakdown of Number of Housing Starts in Thousands
EXIM Stats
Table 17: Canadian Exports for Bromine or Fluorine (2015): Breakdown of Exports Value by Destination Country (in US$) (includes corresponding Graph/Chart)
Table 18: Canadian Imports for Bromine or Fluorine (2015): Breakdown of Imports Value by Country of Origin (in US$) (includes corresponding Graph/Chart)

B.Market Analytics
Table 19: Canadian Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

3. JAPAN
A.Market Analysis
Current and Future Analysis
Strategic Corporate Development
Tosoh Corporation
A Major Japanese Player

B.Market Analytics
Table 20: Japanese Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

4. EUROPE
A.Market Analysis
Current and Future Analysis
Demand to Emerge from Automotive, Pharma and Oil & Natural Gas Sectors
Opportunity Indicators
Table 21: Construction Industry in Europe (2010-2015E): Percentage Change of Construction Output by Segment (includes corresponding Graph/Chart)
Table 22: European Construction Market by Sector (2014): Percentage Share Breakdown of Value Sales for Civil Engineering, Non-Residential, and Residential (includes corresponding Graph/Chart)
Ban on Use of Bromine in Various Sectors Hamper Growth
Amendments to the POPS Regulation in EU Restrict Use of Bromine-based Flame Retardants
Product Launches
Key Players

B.Market Analytics
Table 23: European Recent Past, Current & Future Analysis for Bromine by Geographic Region
France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)
Table 24: European 9-Year Perspective for Bromine by Geographic Region
Percentage Breakdown of Volume Consumption for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2014, 2016 and 2022 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC
A.Market Analysis
Asia-Pacific Leads the Global Bromine Market

B.Market Analytics
Table 25: Asia-Pacific Recent Past, Current & Future Analysis for Bromine by Geographic Region
China, India, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)
Table 26: Asia-Pacific 9-Year Perspective for Bromine by Geographic Region
Percentage Breakdown of Volume Consumption for China, India, South Korea, Taiwan and Rest of Asia-Pacific Markets for Years 2014, 2016 and 2022 (includes corresponding Graph/Chart)

5a. CHINA
A.Market Analysis
China to Emerge as Leading Market for Bromine Owing to Increasing Demand for Flame Retardants in the Country
Shrinking Domestic Supply to Push up Bromine Prices
International Suppliers to Escalate Bromine Prices
Adverse Impact of Climatic Conditions and Policies on Chinese Bromine Market
Strategic Corporate Development
Key Players

B.Market Analytics
Table 27: Chinese Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual
Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

5b. INDIA
A. Market Analysis
Key Players
B. Market Analytics
Table 28: Indian Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

5c. SOUTH KOREA
Market Analysis
Table 29: South Korean Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

5d. TAIWAN
Market Analysis
Table 30: Taiwanese Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

5e. REST OF ASIA-PACIFIC
A. Market Analysis
Strategic Corporate Development
B. Market Analytics
Table 31: Rest of Asia-Pacific Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

6. LATIN AMERICA
Market Analysis
Table 32: Latin American Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

7. REST OF WORLD
A. Market Analysis
Jordan
Israel
Strategic Corporate Developments
Key Players
B. Market Analytics
Table 33: Rest of World Recent Past, Current & Future Analysis for Bromine Market Analyzed with Annual Consumption Figures in Metric Tons for Years 2014 through 2022 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE
Total Companies Profiled: 30 (including Divisions/Subsidiaries 31)
The United States (4)
Japan (1)
Europe (2)
- Germany (1)
- Rest of Europe (1)
Asia-Pacific (Excluding Japan) (19)
Middle East (5)

Ordering:
Order Online - http://www.researchandmarkets.com/reports/595581/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Research and Markets,
Guinness Centre,
Taylors Lane,
Fax Order Form
To place an order via fax, simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions, please visit
http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Bromine - Global Strategic Business Report
Web Address: http://www.researchandmarkets.com/reports/595581/
Office Code: SC2GZ7P3

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Format</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td></td>
<td>USD 4500</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users</td>
<td></td>
<td>USD 6300</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 10 Users</td>
<td></td>
<td>USD 8550</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 15 Users</td>
<td></td>
<td>USD 10800</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: ___________________________ Title: ___________________________
Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information
Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World