

[CLICK TO VIEW](#)

[Table of Contents 2](#)

[List of Tables & Charts 3](#)

[Study Overview 5](#)

[Sample Text, Table  
& Chart 6](#)

[Sample Profile, Table &  
Forecast 7](#)

[Order Form & Corporate  
Use License 8](#)

[About Freedonia,  
Custom Research,  
Related Studies, 9](#)



# World Water Disinfection Products

---

Industry Study with Forecasts for **2016 & 2021**

---

Study #2992 | March 2013 | \$6100 | 388 pages

---

[www.freedoniagroup.com](http://www.freedoniagroup.com)



**The Freedonia Group**

767 Beta Drive

Cleveland, OH • 44143-2326 • USA

Toll Free US Tel: 800.927.5900 or +1 440.684.9600

Fax: +1 440.646.0484

E-mail: [info@freedoniagroup.com](mailto:info@freedoniagroup.com)

## Table of Contents

### EXECUTIVE SUMMARY

### MARKET ENVIRONMENT

General .....	4
World Economic Overview .....	6
Recent Historical Trends.....	6
Macroeconomic Outlook .....	7
World Gross Fixed Capital Formation.....	12
World Personal Consumption .....	
Expenditures .....	13
World Demographic Outlook.....	16
Population .....	17
Urbanization Patterns .....	18
World Water Use .....	20
Water Shortage .....	22
Water Reuse .....	23
World Manufacturing Outlook .....	29
World Electricity Generation.....	31
Environmental & Regulatory Issues .....	33
Water Pollution.....	34
Regulations.....	37
Waterborne Diseases.....	41
Technology & Product Innovation .....	43
International Trade .....	45

### OVERVIEW

General .....	47
Products .....	50
Chemicals .....	53
Chlorine Chemicals .....	56
Chlorine Gas.....	58
Chlorine Derivatives .....	62
Sodium Hypochlorite .....	63
Calcium Hypochlorite .....	65
Chlorinated Isocyanurates .....	66
Bromine Derivatives .....	68
Other Chemical Products .....	70
Equipment .....	73
Chemical Generation Equipment .....	76
UV Equipment .....	79
Ozone Equipment.....	83
Other Equipment.....	86
Markets .....	88
Municipal .....	90
Supply Water.....	94
Wastewater .....	97
Industrial .....	101
Recreational.....	105

### NORTH AMERICA

General .....	110
Water Disinfection Product Demand .....	112
United States .....	115
Canada .....	124
Mexico .....	131

### WESTERN EUROPE

General .....	139
Water Disinfection Product Demand .....	141
France.....	145
Germany .....	152
Italy .....	158
Spain .....	165
United Kingdom.....	171
Other Western Europe .....	177

### ASIA/PACIFIC

General .....	184
Water Disinfection Product Demand .....	186
Australia.....	190
China .....	197
India .....	209
Japan.....	216
South Korea .....	223
Taiwan .....	230
Other Asia/Pacific .....	236

### OTHER REGIONS

Central & South America .....	243
General .....	243
Water Disinfection Product Demand ..	245
Brazil.....	248
Other Central & South America.....	253
Eastern Europe .....	259
General .....	259
Water Disinfection Product Demand ..	261
Russia .....	264
Other Eastern Europe.....	269
Africa/Mideast.....	276
General .....	276
Water Disinfection Product Demand ..	278
Markets .....	280
Suppliers .....	282

### INDUSTRY STRUCTURE

General .....	284
Market Share .....	288

Industry Restructuring .....	291
Competitive Strategies.....	294
Research & Development.....	294
Low Cost Position .....	295
Focus Strategies .....	296
Cooperative Agreements.....	297
Marketing & Distribution .....	301

### COMPANY PROFILES

Akzo Nobel .....	303
Ashland Incorporated .....	305
Atlantium Technologies.....	308
Axiall Corporation .....	309
BASF SE.....	311
Brenntag AG.....	313
Buckman Laboratories International.....	315
BWT AG .....	317
Calgon Carbon .....	320
Chemtura Corporation .....	322
China National BlueStar Group .....	323
Danaher Corporation.....	324
Dow Chemical.....	327
DuPont (EI) de Nemours.....	329
Ebara Corporation .....	331
Ecolab Incorporated .....	332
Fuji Electric.....	335
GDF SUEZ.....	336
General Electric .....	338
GLV Incorporated .....	340
Grundfos Holding .....	342
Halma plc .....	344
Israel Chemicals.....	347
ITT Corporation.....	349
Kemira Oyj.....	350
Kurita Water Industries .....	352
LIT Technology .....	354
Lonza Group.....	355
MIOX Corporation .....	358
Mitsubishi Electric .....	360
Occidental Petroleum.....	361
Olin Corporation .....	363
ProMinent Dosiertechnik .....	365
Royal Philips Electronics .....	367
Severn Trent.....	370
Shanghai Duoqia Water Treatment Science and Technology .....	373
Siemens AG .....	374
Solvay SA .....	377
Veolia Environnement .....	379
Xylem Incorporated .....	382
Other Companies Mentioned in Study ....	384

## List of Tables/Charts

### EXECUTIVE SUMMARY

1 Summary Table.....3

### MARKET ENVIRONMENT

1 World Gross Domestic Product by Region ..... 11  
 2 World Gross Fixed Capital Formation by Region..... 13  
 3 World Personal Consumption Expenditures by Region ..... 16  
 4 World Population by Region ..... 18  
 5 World Urban Population by Region . 20  
 6 World Nonagricultural Water Use by Region..... 22  
 7 World Manufacturing Value Added by Region ..... 31  
 8 World Electricity Generation by Region ..... 33

### OVERVIEW

1 World Water Disinfection Product Demand by Region..... 49  
 2 World Water Disinfection Product Demand by Type..... 53  
 3 World Water Disinfection Chemical Demand by Type & Region ..... 55  
 4 World Water Disinfection Chlorine Chemical Demand by Type & Region ..... 58  
 5 World Water Disinfection Chlorine Gas Demand by Region ..... 61  
 6 World Water Disinfection Chlorine Derivative Demand by Type & Region ..... 63  
 7 World Water Disinfection Bromine Derivative Demand by Region ..... 70  
 8 World Demand for Other Water Disinfection Chemicals by Region ..... 73  
 9 World Water Disinfection Equipment Demand by Type & Region ..... 75  
 10 World Water Disinfection Chemical Generation Equipment Demand by Region..... 79  
 11 World UV Water Disinfection Equipment Demand by Region .... 83

12 World Ozone Water Disinfection Equipment Demand by Region .... 86  
 13 World Demand for Other Water Disinfection Equipment by Region ..... 87  
 14 World Water Disinfection Product Demand by Market..... 89  
 15 World Municipal Water Disinfection Market by Segment..... 94  
 16 World Municipal Supply Water Market for Disinfection Products by Region..... 97  
 17 World Municipal Wastewater Market for Disinfection Products by Region..... 101  
 18 World Industrial Market for Water Disinfection Products by Region..... 105  
 19 World Recreational Market for Water Disinfection Products by Region..... 109

### NORTH AMERICA

1 North America: Market Environment for Water Disinfection Products 111  
 2 North America: Water Disinfection Product Demand by Type & Market..... 114  
 3 United States: Market Environment for Water Disinfection Products 117  
 4 United States: Water Disinfection Product Demand by Type ..... 120  
 5 United States: Water Disinfection Markets ..... 123  
 6 Canada: Market Environment for Water Disinfection Products ..... 126  
 7 Canada: Water Disinfection Product Demand by Type..... 128  
 8 Canada: Water Disinfection Markets..... 130  
 9 Mexico: Market Environment for Water Disinfection Products ..... 133  
 10 Mexico: Water Disinfection Product Demand by Type ..... 135  
 11 Mexico: Water Disinfection Markets..... 137

### WESTERN EUROPE

1 Western Europe: Market Environment for Water Disinfection Products 141  
 2 Western Europe: Water Disinfection Product Demand by Type & Market ..... 144  
 3 France: Market Environment for Water Disinfection Products ..... 147  
 4 France: Water Disinfection Product Demand by Type..... 149  
 5 France: Water Disinfection Markets..... 151  
 6 Germany: Market Environment for Water Disinfection Products ..... 153  
 7 Germany: Water Disinfection Product Demand by Type ..... 155  
 8 Germany: Water Disinfection Markets..... 157  
 9 Italy: Market Environment for Water Disinfection Products ..... 159  
 10 Italy: Water Disinfection Product Demand by Type..... 161  
 11 Italy: Water Disinfection Markets . 164  
 12 Spain: Market Environment for Water Disinfection Products ..... 166  
 13 Spain: Water Disinfection Product Demand by Type..... 168  
 14 Spain: Water Disinfection Markets 170  
 15 United Kingdom: Market Environment for Water Disinfection Products 172  
 16 United Kingdom: Water Disinfection Product Demand by Type ..... 174  
 17 United Kingdom: Water Disinfection Markets ..... 176  
 18 Other Western Europe: Market Environment for Water Disinfection Products ..... 178  
 19 Other Western Europe: Water Disinfection Product Demand by Type..... 181  
 20 Other Western Europe: Water Disinfection Markets ..... 183

### ASIA/PACIFIC

1 Asia/Pacific: Market Environment for Water Disinfection Products 186

(continued on following page)

[Click here to purchase online](#)

## List of Tables

(continued from previous page)

2 Asia/Pacific: Water Disinfection Product Demand by Type & Market.....	189
3 Australia: Market Environment for Water Disinfection Products .....	192
4 Australia: Water Disinfection Product Demand by Type .....	194
5 Australia: Water Disinfection Markets.....	196
6 China: Market Environment for Water Disinfection Products .....	199
7 China: Water Disinfection Product Demand by Type.....	203
8 China: Water Disinfection Markets	208
9 India: Market Environment for Water Disinfection Products .....	211
10 India: Water Disinfection Product Demand by Type.....	213
11 India: Water Disinfection Markets	215
12 Japan: Market Environment for Water Disinfection Products .....	218
13 Japan: Water Disinfection Product Demand by Type.....	220
14 Japan: Water Disinfection Markets	222
15 South Korea: Market Environment for Water Disinfection Products	225
16 South Korea: Water Disinfection Product Demand by Type .....	227
17 South Korea: Water Disinfection Markets.....	229
18 Taiwan: Market Environment for Water Disinfection Products .....	232
19 Taiwan: Water Disinfection Product Demand by Type .....	233
20 Taiwan: Water Disinfection Markets.....	235
21 Other Asia/Pacific: Market Environment for Water Disinfection Products.....	237
22 Other Asia/Pacific: Water Disinfection Product Demand by Type.....	240
23 Other Asia/Pacific: Water Disinfection Markets .....	242

## OTHER REGIONS

1 Central & South America: Market Environment for Water Disinfection Products.....	245
--	-----

2 Central & South America: Water Disinfection Product Demand by Type & Market .....	247
3 Brazil: Market Environment for Water Disinfection Products .....	249
4 Brazil: Water Disinfection Product Demand by Type.....	251
5 Brazil: Water Disinfection Markets.....	252
6 Other Central & South America: Market Environment for Water Disinfection Products .....	255
7 Other Central & South America: Water Disinfection Product Demand by Type.....	257
8 Other Central & South America: Water Disinfection Markets .....	259
9 Eastern Europe: Market Environment for Water Disinfection Products.....	261
10 Eastern Europe: Water Disinfection Product Demand by Type & Market.....	263
11 Russia: Market Environment for Water Disinfection Products .....	265
12 Russia: Water Disinfection Product Demand by Type.....	267
13 Russia: Water Disinfection Markets.....	269
14 Other Eastern Europe: Market Environment for Water Disinfection Products.....	271
15 Other Eastern Europe: Water Disinfection Product Demand by Type.....	273
16 Other Eastern Europe: Water Disinfection Markets .....	275
17 Africa/Mideast: Market Environment for Water Disinfection Products.....	277
18 Africa/Mideast: Water Disinfection Product Demand by Type .....	280
19 Africa/Mideast: Water Disinfection Markets .....	282

## INDUSTRY STRUCTURE

1 World Water Disinfection Product Sales by Company, 2011 .....	286
2 Selected Acquisitions & Divestitures.....	293
3 Selected Cooperative Agreements.	298

## List of Charts

### MARKET ENVIRONMENT

1 Percent of Population with Access to Improved Water Supplies, 2010 .....	25
2 Percent of Population with Access to Improved Sanitation Facilities, 2010 .....	26
3 Disparity between Urban & Rural Access to Improved Water Supplies, 2010 .....	27
4 Disparity between Urban & Rural Access to Improved Sanitation Facilities, 2010 .....	28

### OVERVIEW

1 World Water Disinfection Product Demand by Region, 2011.....	50
2 World Water Disinfection Chemical Demand by Type, 2011 .....	56
3 World Water Disinfection Equipment Demand by Type, 2011 .....	76
4 World Water Disinfection Product Markets, 2011.....	90

### NORTH AMERICA

1 North America: Water Disinfection Product Demand by Country, 2011 .....	115
---	-----

### WESTERN EUROPE

1 Western Europe: Water Disinfection Product Demand by Country, 2011 .....	145
--	-----

### ASIA/PACIFIC

1 Asia/Pacific: Water Disinfection Product Demand by Country, 2011 .....	190
--	-----

### INDUSTRY STRUCTURE

1 World Water Disinfection Product Market Share by Company, 2011 .....	289
--	-----

[Click here to purchase online](#)



*Increasing water quality and wastewater treatment standards will continue to cause a switch from elemental chlorine in favor of higher value chemicals and advanced treatment technologies.*

## US demand to rise 5.5% annually through 2016

World demand for water disinfection products is projected to increase 5.5 percent per year to \$7.7 billion in 2016. Significant changes are occurring around the world for a number of reasons. There is continued concern about disinfection byproducts (DBPs), many of which are known or suspected carcinogens. Outbreaks of waterborne illness continue to occur even in developed countries as pathogens such as *Cryptosporidium* and *Giardia lamblia* are resistant to chlorine. Heightened security and anti-terrorism measures have led to increased regulatory costs. Finally, standards for water quality and wastewater treatment around the world are tightening -- including pressure to treat wastewater for reuse or resupply of source waters.

The net result of these factors has been a switch from elemental chlorine in favor of higher value chemicals and advanced treatment technologies. While there is considerable regional variation in the degree to which chlorine alternatives are favored, sodium hypochlorite and hypochlorite generators, UV equipment, and ozone equipment will be the main beneficiaries of these changes. In addition to environmental advantages, growth in the use of equipment will be spurred by technological improvements and reduced costs, both of which have made these alternatives more attractive options. However, chlorine will remain important -- especially in the developing world.

## World Water Disinfection Product Demand, 2016 (\$7.7 billion)



North America  
37%

Asia/Pacific  
31%

Western Europe  
15%

Other Regions  
17%

## Municipal market seeing biggest shift in product mix

Growth in the industrial market will accelerate due to improving levels of manufacturing activity, particularly in the large US market. Generally, industrial users favor high-end chemicals and nonchemical disinfection techniques, but chlorine and other commodities have a large presence in industrial markets in developing countries. In those areas, users will increasingly choose products better suited for such processes. The recreational market is dominated by a handful of countries -- namely the US, Brazil, Spain, France, Germany, Italy, Australia, South Africa, and Mexico. While chemicals will continue to account for most recreational water treatment,

saltwater chlorine generators and ozone equipment are increasing their market presence, as they provide improved water quality.

The most dramatic changes in product mix are occurring in the municipal market. This trend is led by the US, which is pushing to replace chlorine gas. Around the world, municipal water treatment systems are reviewing their disinfection choices to determine the best technology. In developing areas, this includes efforts to expand safe water supplies. Across the board, wastewater disinfection will post above average gains as operators improve on treatment techniques in developed areas and expand them in developing regions.

Copyright 2013 The Freedonia Group, Inc.

[Click here to purchase online](#)

## Sample Text, Table & Chart

### MARKETS

#### India: Markets

The municipal segment is the fastest growing portion of the market. In some instances, growth in the market is driven by upgrades to existing systems, in part due to the shift from commodity chemicals to more advanced technologies. But for the most part, advances in the construction of the country's water infrastructure are driving growth by which water is treated in India. As a result, portions of the Indian population will gain access to improved water supplies, which will boost demand for chlorine and other disinfection products, including sodium hypochlorite. Calcium hypochlorite is used in smaller water systems. In the past few decades, the country has made remarkable progress toward universal access to water in basic terms. But advances in the operation and maintenance of the water infrastructure have generally not kept pace, leading to lower quality of service. Moreover, wastewater treatment, which is seriously deficient in most large cities and nearly nonexistent in most of the rest of the country, will expand at a rate well above the overall average. Even with this impressive growth, there will still be considerable potential for additional growth in the Indian municipal water disinfection segment.

Although it is appreciable, India's industrial sector is less well developed than that in many other countries. As a result, the industrial water disinfection segment does not account for as large a share of the overall Indian market as it does in many countries with significant levels of industrial activity. India does have several industries that are potential markets for water disinfection products, including food and beverage processing and chemical processing.

The recreational segment in India is insignificant. The market is for the most part not sufficiently affluent to support a significant pool and spa segment, although an emerging middle class

214

Copyright 2013

TABLE VI-11

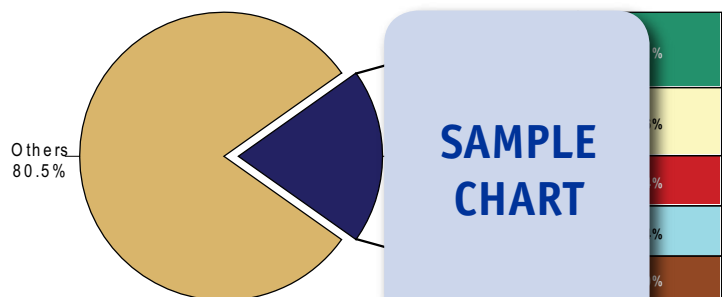
INDIA: WATER DISINFECTION MARKETS  
(million dollars)

Item	2001	2006	2011	2016	2021
Gross Domestic Product (bil 2010\$)					
\$ disinfection/000\$ GDP					
Water Disinfection Demand					
Municipal:					
Supply Water					
Wastewater					
Industrial					
Recreational					

SAMPLE  
TABLE

CHART VIII-1

WORLD WATER DISINFECTION PRODUCT  
MARKET SHARE BY COMPANY  
(\$5.9 billion, 2011)



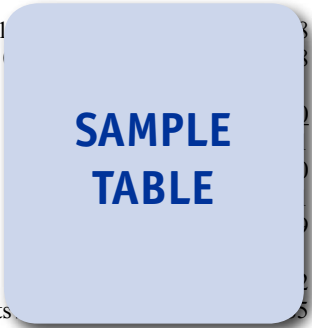
SAMPLE  
CHART

**Sample Profile,  
 Table & Forecast**

**TABLE VI-10**

**INDIA: WATER DISINFECTION PRODUCT DEMAND BY TYPE  
 (million dollars)**

Item	2001	2006	2011	2016	2021
Resident Population (mil)	1				
\$ disinfection/capita					
Water Disinfection Product Demand					
Chemical:					
Chlorine Chemicals					
Other Chemicals					
Equipment					
% India					
Asia/Pacific Water Disinfection Products					



**COMPANY PROFILES**

**BWT AG**  
 Walter-Simmer-Straße 4  
 5310 Mondsee  
 Austria  
 43-6232-  
 http://wv

Sales: \$  
 Employr

Key Pro on systems, chlori-  
 nating ki ation systems

BWT develops and produces water treatment products and systems for residential, commercial, industrial, and swimming pool applications. In addition, the Company develops fuel cell technologies and products. BWT operates in five geographic segments: Scandinavia, Italy/Spain, Austria/Germany, France/Benelux/UK, and Switzerland/Others. In November 2012, Aquivest GmbH (Germany) acquired a 31.13 percent stake in BWT. Aquivest plans to complete the acquisition of the remaining shares of the Company by February 2013.

The Company participates in the world water disinfection industry via all five segments. Through these segments, BWT manufactures a variety of disinfection and other water treatment products under such brand names as AQA TOTAL ENERGY, BWT, CILLIT, PERMO, and HOH for the residential, institutional, utility, and commercial markets. Among the products from these segments are such water disinfection offerings as ultraviolet (UV) light and ozone generation systems, chlorinating kits and systems, and chlorine dioxide generation systems. Production activities for these segments are conducted primarily in Austria, Germany, France, and Switzerland.

317 Copyright 2013 The Freedonia Group, Inc.



“Demand for water disinfection products in India is projected to increase nearly 14 percent per year through 2016 to \$215 million, among the fastest growth rates in the world. Gains will be strong due to continuing efforts to improve the country’s water infrastructure, which remains inefficient and incomplete. However, unlike many areas in which regulatory requirements are driving fuller compliance with disinfection standards, India’s drinking water quality standards are primarily voluntary.”  
 --Section VI, pg. 211

**ONLINE:** [www.freedoniagroup.com](http://www.freedoniagroup.com)

**MAIL:** Print out and complete the order form and send to The Freedonia Group (see address at the bottom of this form)

**PHONE:** Call toll free, 800.927.5900 (US) or + 1 440.684.9600

**FAX:** + 1 440.646.0484 (US)

**EMAIL:** [info@freedoniagroup.com](mailto:info@freedoniagroup.com)

### Free Handling & Shipping

There is **NO** charge for handling or UPS shipping in the US. Expect delivery in 3 to 5 business days. Outside the US, Freedonia provides free airmail service. Express delivery is available at cost.

### Credit Card Orders

For convenience, Freedonia accepts American Express, MasterCard or Visa. Credit card purchases must include account number, expiration date and authorized signature.

### Orders Outside of the US

Checks must be made payable in US funds, drawn against a US bank and mailed directly to The Freedonia Group. For wire transfers please contact our customer service department at [info@freedoniagroup.com](mailto:info@freedoniagroup.com). Credit cards accepted.

### Save 15%

If you order three (3) different titles at the same time, you can receive a 15% discount. If your order is accompanied by a check or wire transfer, you may take a 5% cash discount (discounts do not apply to Corporate Use Licenses).

## Corporate Use License

Now every decision maker in your organization can act on the key intelligence found in all Freedonia studies. For an additional \$2600, companies receive unlimited use of an electronic version (PDF) of the study. Place it on your intranet, e-mail it to coworkers around the world, or print it as many times as you like,

[Click here to learn more about the Corporate Use License](#)

## ORDER FORM

F-WEB.-2992

**World Water Disinfection Products .....** \$6100

Corporate Use License (add to study price) \* + \$2600  
 \_\_\_ Additional Print Copies @ \$600 each \*  
 Total (including selected option) \$ \_\_\_\_\_

Enclosed is my check (5% discount) drawn on a US bank and payable to The Freedonia Group, Inc., in US funds (Ohio residents add 7.75% sales tax)

Bill my company     American Express     MasterCard     Visa

MM	YY

Credit Card #    Expiration Date

Signature \_\_\_\_\_

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Division \_\_\_\_\_

Street \_\_\_\_\_  
(No PO Box please)

City/State/Zip \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

\* Please check appropriate option and sign below to order an electronic version of the study.

### Corporate Use License Agreement

The above captioned study may be stored on the company's intranet or shared directory, available to company employees. Copies of the study may be made, but the undersigned represents that distribution of the study will be limited to employees of the company.

Signature \_\_\_\_\_

### Individual Use License Agreement

The undersigned hereby represents that the above captioned study will be used by only \_\_\_ individual(s) who are employees of the company and that the study will not be loaded on a network for multiple users. In the event that usage of the study changes, the Company will promptly notify Freedonia of such change and will pay to Freedonia the appropriate fee based on Freedonia's standard fee schedule then in effect. **Note:** Entire company corporate use license, add \$2600; one additional user, add \$600; two additional users, add \$1200; three additional users, add \$1800.

Signature \_\_\_\_\_



**OTHER STUDIES**

**World Water Treatment Chemicals**

World water treatment chemical demand will rise 5.8 percent per year to \$30.6 billion in 2017. The fastest growth will occur in developing regions, driven by rising industrial water quality standards, more complex manufacturing processes, and efforts to improve access to safe drinking water supplies and sanitation facilities. This study analyzes the \$23.1 billion world water treatment chemical industry, with forecasts for 2017 and 2022 by product, market, world region, and for 16 countries. The study also evaluates company market share and profiles industry players.

#3122 .....January 2014 ..... \$6100

**Water Treatment Chemicals**

Demand for water treatment chemicals in the US is forecast to advance 3.2 percent annually to \$6.7 billion (15.1 billion pounds) in 2017. The energy and mining markets will grow the fastest. Scale control agents will be the fastest growing products, while coagulants and flocculants will pace the larger, more mature categories. This study analyzes the \$5.7 billion US water treatment chemical industry, with forecasts for 2017 and 2022 by product, application and market. The study also evaluates company market share and profiles industry competitors.

#3072 .....September 2013..... \$4900

**Disinfectant & Antimicrobial Chemicals**

Demand for disinfectant and antimicrobial chemicals in the US is forecast to rise 6.1 percent annually to \$1.6 billion in 2017. Organosulfur compounds will see significant growth as antimicrobial agents in products such as water-based architectural paint, floor coverings, home textiles, and other construction materials. This study analyzes the \$1.2 billion US disinfectant and antimicrobial chemical industry, with forecasts for 2017 and 2022 by market, function, and product. The study also evaluates company market share and profiles industry players.

#3043 .....June 2013 ..... \$4900

**Activated Carbon**

US demand for activated carbon will rise 11.2 percent per year to 1.3 billion pounds in 2017, driven by the EPA's new mercury removal standards. Industrial air purification will be the fastest growing application, surpassing water treatment as the largest use by volume. Motor vehicle applications will lead gains among smaller uses. This study analyzes the 758 million pound US activated carbon industry, with forecasts for 2017 and 2022 by type, application, and US region. The study also evaluates company market share and profiles industry players.

#3018 .....May 2013..... \$5300

**World Aquaculture: Feed, Equipment & Chemicals**

After several decades of rapid expansion, world demand for aquaculture supplies and equipment is expected to grow 7.4 percent per year to \$63.6 billion in 2017 at the farm gate level. The Asia/Pacific region will remain the dominant market, with the key China segment outpaced by other Asian countries. This study analyzes the \$44.6 billion world aquaculture supplies and equipment industry, with forecasts for 2017 and 2022 by fish type, product, market, world region and for 17 countries. The study also evaluates company market share and profiles industry participants.

#2999 .....March 2013..... \$6100

**About The Freedonia Group**

The Freedonia Group, Inc., is a leading international industry market research company that provides its clients with information and analysis needed to make informed strategic decisions for their businesses. Studies help clients identify business opportunities, develop strategies, make investment decisions and evaluate opportunities and threats. Freedonia research is designed to deliver unbiased views and reliable outlooks to assist clients in making the right decisions. Freedonia capitalizes on the resources of its proprietary in-house research team of experienced economists, professional analysts, industry researchers and editorial groups. Freedonia covers a diverse group of industries throughout the United States, the emerging China market, and other world markets. Industries analyzed by Freedonia include:

- Chemicals • Plastics • Life Sciences • Packaging • Building Materials • Security & Electronics • Industrial Components & Equipment • Automotive & Transportation Equipment • Household Goods • Energy/Power Equipment

[Click here to learn more about Freedonia](#)

**Freedonia Custom Research**

Freedonia Custom Research delivers the same high quality, thorough and unbiased assessment of an industry or market as an industry study. Since the research initiative is based upon a company's specific needs, companies harness Freedonia's research capabilities and resources to answer unique questions. When you leverage the results of a Freedonia Custom Research engagement, you are able to obtain important answers to specific questions and issues associated with: mergers and acquisitions, new product launches/development, geographic expansion, entry into new markets, strategic business planning, and investment and funding decisions.

Freedonia Custom Research is ideal for companies seeking to make a strategic difference in the status quo and focus on future business growth. Working side by side with clients, Freedonia's team is able to define a research project that is custom-tailored to answer specific questions and provide the basis from which a company can make informed business decisions.

[Click here to learn more about Custom Research](#)



[Click here for complete title list](#)



[Click here to visit freedoniagroup.com](http://www.freedoniagroup.com)