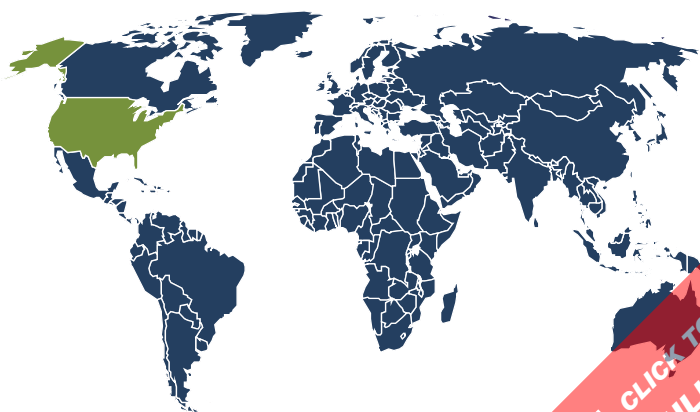


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# Specialty Biocides: United States

December 2016



## Highlights

### Market Environment

Historical Trends | Key Economic Indicators | Environmental and Regulatory Factors  
Competitive Materials and Technologies | Applications Overview

### Segmentation and Forecasts

Products | Markets

### Industry Structure

Industry Composition and Characteristics | Companies Cited

### Resources

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## ABOUT THIS REPORT

### Scope & Method

This report forecasts US specialty biocide demand in US dollars at the manufacturers' level and in pounds to 2020. Total demand by value is segmented by product in terms of:

- halogen compounds
- metal-based compounds
- organosulfurs
- nitrogen compounds
- other products such as phenolic compounds, organic acids, and glutaraldehyde.

The terms "biocides" and "specialty biocides" are used interchangeably throughout this report. Specialty biocides are also marketed under terms such as algicides, microbiocides, fungicides, bactericides, and antimicrobials. For the purposes of this report, these products are treated as a single product type. Products marketed specifically as pesticides for use in agricultural applications, by pest management professionals in commercial or residential applications, or for consumer use are not included in this report. Commodity chemicals such as chlorine, citric acid, creosote, ethanol, and sodium hypochlorite (household bleach) are also excluded, as are pharmaceutical and drug products that are antimicrobial in nature.

Total demand by value is also segmented by market as follows:

- wood preservation
- cleaning products
- other industrial markets such as food, coatings, and cosmetics
- commercial and consumer
- energy.

To illustrate historical trends, total demand in value terms is provided in an annual series from 2005 to 2015; total demand in volume terms is reported at five-year intervals for 2005, 2010, and 2015; and the various segments are provided for 2010 and 2015.

This report quantifies trends in various measures of growth. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values

along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided at five-year intervals with CAGRs for the years corresponding to other reported figures. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

## Sources

*Specialty Biocides: United States* (FF35011) is based on [Biocides Market in the US](#), a comprehensive industry study published by The Freedonia Group in December 2016. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other industry studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

## Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
325188	All Other Basic Inorganic Chemical Mfg	2819	Industrial Inorganic Chemicals, NEC
325199	All Other Basic Organic Chemical Mfg	2869	Industrial Organic Chemicals, NEC
325998	All Other Miscellaneous Chemical Product and Preparation Mfg	2899	Chemicals and Chemical Preparations, NEC

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## RESOURCES

### The Freedonia Group

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

<i>3457 Biocides Market</i> , December 2016	<a href="#">see study contents</a>
Related Industry Studies	
<i>3456 Wood Preservative Market</i> , November 2016	<a href="#">see study contents</a>
<i>3429 Solvents</i> , July 2016	<a href="#">see study contents</a>
<i>3424 Industrial &amp; Institutional Cleaning Chemicals</i> , June 2016	<a href="#">see study contents</a>
<i>3418 World Paint &amp; Coatings</i> , June 2016	<a href="#">see study contents</a>
<i>3394 Lubricants</i> , April 2016	<a href="#">see study contents</a>
<i>3352 Oilfield Chemicals</i> , November 2015	<a href="#">see study contents</a>
<i>3249 World Oilfield Chemicals</i> , March 2015	<a href="#">see study contents</a>
Related Focus Reports	
<i>Industrial &amp; Institutional Cleaning Chemicals: United States</i>	<a href="#">see report contents</a>
<i>Manufacturing (OEM) Coatings: United States</i>	<a href="#">see report contents</a>
<i>Processed Food: United States</i>	<a href="#">see report contents</a>
<i>Refined Petroleum Products: United States</i>	<a href="#">see report contents</a>
<i>Solvents: United States</i>	<a href="#">see report contents</a>
<i>Water Treatment Chemicals: United States</i>	<a href="#">see report contents</a>
Freedonia Custom Research	<a href="#">see capabilities</a>

### Trade Publications

<i>Chemical &amp; Engineering News</i>	<a href="http://cen.acs.org">http://cen.acs.org</a>
<i>Chemical Engineering</i>	<a href="http://www.chemengonline.com">www.chemengonline.com</a>
<i>Chemistry &amp; Industry</i>	<a href="http://www.soci.org/chemistry-and-industry">www.soci.org/chemistry-and-industry</a>
<i>Coatings World</i>	<a href="http://www.coatingsworld.com">www.coatingsworld.com</a>
<i>Compounding World</i>	<a href="http://www.compoundingworld.com">www.compoundingworld.com</a>
<i>Food Safety Magazine</i>	<a href="http://www.foodsafetymagazine.com">www.foodsafetymagazine.com</a>
<i>ICIS Chemical Business</i>	<a href="http://www.icis.com">www.icis.com</a>
<i>Paint &amp; Coatings Industry</i>	<a href="http://www.pcimag.com">www.pcimag.com</a>

### Agencies & Associations

American Chemistry Council	<a href="http://www.americanchemistry.com">www.americanchemistry.com</a>
American Wood Protection Association	<a href="http://www.awpa.com">www.awpa.com</a>
Occupational Safety and Health Administration	<a href="http://www.osha.gov">www.osha.gov</a>
United States Census Bureau	<a href="http://www.census.gov">www.census.gov</a>
United States Environmental Protection Agency	<a href="http://www.epa.gov">www.epa.gov</a>
United States Food and Drug Administration	<a href="http://www.fda.gov">www.fda.gov</a>
United States International Trade Commission	<a href="http://www.usitc.gov">www.usitc.gov</a>

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