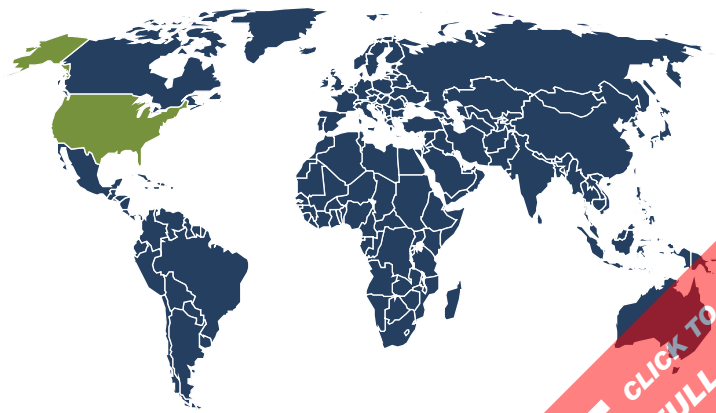




Freedonia Focus Reports  
US Collection

# Flame Retardants: United States

February 2017



## Highlights

### Market Environment

Historical Trends | Key Economic Indicators | Regulatory and Environmental Factors  
NAFTA Overview

### Segmentation and Forecasts

Products | Markets

### Industry Structure

Industry Composition and Characteristics | Companies Cited

### Resources

CLICK TO ORDER  
FULL REPORT  
**BROCHURE**  
CLICK TO ORDER  
FULL REPORT

## ABOUT THIS REPORT

### Scope & Method

This report forecasts US flame retardant demand in metric tons to 2020. Total demand is segmented by product in terms of:

- alumina trihydrate (ATH)
- boron compounds
- phosphorus compounds
- brominated compounds
- other products such as antimony compounds, chlorinated compounds, and magnesium hydroxide.

As defined in this report, flame retardants consist of those products added to a material at the time of manufacture to improve the material's ability to withstand fire and heat, resist combustion, and/or reduce or eliminate the generation of smoke and toxic fumes in the event of a fire. Not included are products used after manufacturing to improve fire safety, such as asbestos or other mineral coatings applied to steel beams, or chemical sprays that are applied to textiles. Also excluded are applications for ATH in which the compound is used as filler and not for its flame retardant properties, most notably in acrylic countertop materials.

Total demand is also segmented by market as follows:

- construction
- wire and cable
- motor vehicles
- electrical and electronics
- other markets such as textiles, aerospace equipment, and furniture.

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

*Flame Retardants: United States* (FF35019) is based on [Global Flame Retardants Market](#), a comprehensive industry study published by The Freedonia Group in February 2017. 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 |

## Copyright & Licensing

The full report is protected by copyright laws of the United States of America and international treaties. The entire contents of the publication are copyrighted by The Freedonia Group.

# Table of Contents

| Section  | Page |
|--|------|
| About This Report .....  | i    |
| Highlights.....  | 1    |
| Market Environment .....   | 2    |
| Historical Trends .....  | 2    |
| Chart 1   US Flame Retardant Demand Trends, 2005-2015 ('000 m tons).....                         | 2    |
| Key Economic Indicators .....  | 3    |
| Table 1   Key Indicators for US Flame Retardant Demand; 2010, 2015, 2020 (2009US\$ bil).....     | 3    |
| Regulatory & Environmental Factors .....   | 4    |
| NAFTA Overview .....   | 7    |
| Chart 2   NAFTA Flame Retardant Demand by Country, 2015 .....                                    | 7    |
| Segmentation & Forecasts.....  | 8    |
| Products .....   | 8    |
| Chart 3   US Flame Retardant Demand by Product; 2010, 2015, 2020 ('000 m tons).....              | 8    |
| Alumina Trihydrate.....  | 9    |
| Boron Compounds.....   | 10   |
| Phosphorus Compounds.....  | 10   |
| Brominated Compounds.....  | 11   |
| Other Products.....  | 12   |
| Chart 4   US Flame Retardant Demand by Product Share; 2010, 2015, 2020 (%).....                  | 14   |
| Markets .....  | 15   |
| Chart 5   US Flame Retardant Demand by Market; 2010, 2015, 2020 ('000 m tons) .....              | 15   |
| Construction.....  | 15   |
| Wire & Cable.....  | 16   |
| Motor Vehicles.....  | 17   |
| Electrical and Electronics.....  | 18   |
| Other Markets.....   | 19   |
| Chart 6   US Flame Retardant Demand by Market Share; 2010, 2015, 2020 (%) .....                  | 20   |
| Industry Structure .....   | 21   |
| Industry Composition & Characteristics .....   | 21   |
| Table 2   Select Suppliers of Flame Retardants to the US Market by Principal Product Lines ..... | 22   |
| Albemarle Corporation.....   | 22   |
| Chemtura Corporation.....  | 23   |
| Israel Chemicals Ltd. ....   | 24   |
| Companies Cited .....  | 25   |
| Resources .....  | 26   |

To return here, click on any Freedonia logo or the Table of Contents link in report footers.  
 PDF bookmarks are also available for navigation.

## RESOURCES

### The Freedonia Group

|   |  |
|---|--|
| <i>3499 Global Flame Retardants Market</i> , February 2017    | <a href="http://www.freedoniagroup.com">www.freedoniagroup.com</a> |
| Related Industry Studies                                      |  |
| <i>3487 Global Flooring Market</i> , January 2017             | <a href="#">see study contents</a>                                 |
| <i>3473 Roofing Underlay Market in the US</i> , November 2016 | <a href="#">see study contents</a>                                 |
| <i>3461 Global Emulsion Polymers Market</i> , November 2016   | <a href="#">see study contents</a>                                 |
| <i>3438 High Performance Composites</i> , August 2016         | <a href="#">see study contents</a>                                 |
| <i>3405 Plastic Foams</i> , June 2016                         | <a href="#">see study contents</a>                                 |
| <i>3399 World Roofing</i> , May 2016                          | <a href="#">see study contents</a>                                 |
| Related Focus Reports   |  |
| <i>Computers &amp; Peripherals: United States</i>             | <a href="#">see report contents</a>                                |
| <i>Construction: United States</i>                            | <a href="#">see report contents</a>                                |
| <i>Electronic Components: United States</i>                   | <a href="#">see report contents</a>                                |
| <i>Motor Vehicles: United States</i>                          | <a href="#">see report contents</a>                                |
| <i>World Flame Retardants</i>                                 | <a href="#">see report contents</a>                                |
| <i>World Flooring</i>   | <a href="#">see report contents</a>                                |
| <i>World Insulation</i>                                       | <a href="#">see report contents</a>                                |
| <i>World Roofing</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>ICIS Chemical Business</i>          | <a href="http://www.icis.com">www.icis.com</a>                 |
| <i>IHS Chemical Week</i>               | <a href="http://www.chemweek.com">www.chemweek.com</a>         |
| <i>Industrial Minerals</i>             | <a href="http://www.indmin.com">www.indmin.com</a>             |
| <i>Plastics News</i>                   | <a href="http://www.plasticsnews.com">www.plasticsnews.com</a> |

### Agencies & Associations

|  |  |
|--|--|
| Institute of Electrical and Electronics Engineers  | <a href="http://www.ieee.org">www.ieee.org</a>       |
| International Association of Plastics Distribution | <a href="http://www.iapd.org">www.iapd.org</a>       |
| International Code Council                         | <a href="http://www.iccsafe.org">www.iccsafe.org</a> |
| International Electrotechnical Commission          | <a href="http://www.iec.ch">www.iec.ch</a>           |
| International Organization for Standardization     | <a href="http://www.iso.org">www.iso.org</a>         |
| National Fire Protection Association               | <a href="http://www.nfpa.org">www.nfpa.org</a>       |
| United States Census Bureau                        | <a href="http://www.census.gov">www.census.gov</a>   |
| United States Consumer Product Safety Commission   | <a href="http://www.cpsc.gov">www.cpsc.gov</a>       |
| United States Environmental Protection Agency      | <a href="http://www.epa.gov">www.epa.gov</a>         |
| United States International Trade Commission       | <a href="http://www.usitc.gov">www.usitc.gov</a>     |

**Environmental Impact.** Please consider the environment before printing this report. Freedonia Focus Report collections feature environmentally friendly products distributed entirely via electronic channels.