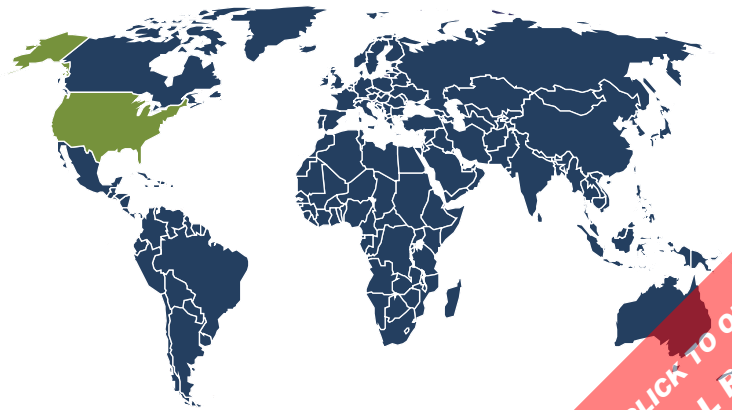




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US Collection

Pesticide Adjuvants: United States

March 2017



Highlights

Market Environment

Historical Trends | Key Economic Indicators | Technological Developments
Environmental and Regulatory Factors

Segmentation and Forecasts

Products | Markets

Industry Structure

Industry Characteristics | Market Share

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ABOUT THIS REPORT

Scope & Method

This report forecasts US pesticide adjuvant demand in pounds to 2021. Total demand is segmented by product in terms of:

- surfactants and emulsifiers
- oil concentrates
- drift control agents
- compatibility agents
- water conditioners
- other products such as fertilizers, evaporation aids, and humectants.

For the purposes of this report, adjuvant refers to any ingredient that is added to a pesticide formulation to improve the performance of the active ingredient. Diluents and carriers (including water, clays, and most solvents) are excluded from the scope of this report, as are pesticide active ingredients. Adjuvants produced for captive use (ie, in a company's own pesticide products) or for sale to pesticide formulators, distributors, and end users are included.

Total demand is also segmented by market as follows:

- agriculture
- consumer
- commercial.

To illustrate historical trends, total demand is provided in an annual series from 2006 to 2016; the various segments are reported at five-year intervals for 2006, 2011, and 2016.

This report quantifies trends in various measures of growth and volatility. 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. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. 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.

ABOUT THIS REPORT

Key macroeconomic indicators are also provided with quantified trends. 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

Pesticide Adjuvants: United States (FF35110) is based on [Pesticide Adjuvant Market in the US](#), a comprehensive industry study published by The Freedonia Group. 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 reports and 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

Table 6 | Industry Codes Related to Pesticide Adjuvants

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
325320	Pesticide and Other Agricultural Chemical Mfg	2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants
325613	Surface Active Agent Mfg	2879	Pesticides and Agricultural Chemicals, NEC
424690	Other Chemical and Allied Products Merchant Wholesalers	5169	Chemicals and Allied Products, NEC
424910	Farm Supplies Merchant Wholesalers	5191	Farm Supplies

Source: US Census Bureau

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Resources

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Freedonia Industry Studies

Pesticide Adjuvant Market in the US, March 2017
Power Lawn & Garden Equipment Market in the US, February 2017
Agricultural Pesticide Market in the US, January 2017
Biocides Market in the US, December 2016
Global Amines Market, November 2016
Specialty Surfactants, August 2016
Solvents, July 2016
Industrial & Institutional (I&I) Cleaning Chemicals, June 2016
Lawn & Garden Consumables, June 2016
World Enzymes, June 2016
World Agricultural Equipment, April 2016
Home & Garden Pesticides, February 2016
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Specialty Biocides: United States
World Agricultural Equipment
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Freedonia Custom Research

Trade Publications

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CropLife

Natural News

PestWeb

Western Farm Press

Agencies & Associations

American Association of Pesticide Safety Educators

Association of American Pesticide Control Officials

CropLife America

National Pest Management Association

Pesticide Applicators Professional Association

Responsible Industry for a Sound Environment

United States Census Bureau

United States Department of Agriculture

United States Environmental Protection Agency