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US Collection

Alkalies & Chlorine: United States

October 2017



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About This Report

Scope & Method

This report forecasts US alkalis and chlorine demand and shipments in nominal US dollars at the manufacturers' level to 2021. Total demand and shipments in nominal dollars are segmented by product in terms of:

- caustic soda (sodium hydroxide)
- chlorine
- soda ash (sodium carbonate)
- other alkalis such as baking soda, caustic potash, and potassium carbonate.

Sodium hypochlorite (bleach) is not included in this report. Additionally, alkali and chlorine products that are further processed into other products at the site of manufacture (such as caustic soda and chlorine further processed to create bleach or chlorine used to manufacture ethylene dichloride) are excluded from the report. Re-exports of alkalis and chlorine are excluded from demand and trade figures.

Forecasts of total shipments in real (inflation adjusted) US dollars at the manufacturers' level are also provided to 2021.

To illustrate historical trends, total demand, shipments (in nominal and real terms), the various segments, and trade are provided in annual series from 2006 to 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.

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

Alkalies & Chlorine: United States (FF35010) represents 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 8 | Industry Codes Related to Alkalies & Chlorine

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
212391	Potash, Soda, and Borate Mineral Mining	1474	Potash, Soda, and Borate Minerals
322110	Pulp Mills	2611	Pulp Mills
325181	Alkalies and Chlorine Manufacturing	2812	Alkalies and Chlorine
325188	All Other Basic Inorganic Chemical Manufacturing	2819	Industrial Inorganic Chemicals, NEC
325211	Plastics Material and Resin Manufacturing	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers
325611	Soap and Other Detergent Manufacturing	2841	Soap and Other Detergents, Except Specialty Cleaners
325612	Polish and Other Sanitation Good Manufacturing	2842	Specialty Cleaning, Polishing, and Sanitation Preparations
331311	Alumina Refining		

Source: US Census Bureau

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Resources

The Freedonia Group

Freedonia Industry Studies

Packaging Films Market in the US, July 2017

Global Water Treatment Chemicals Market, June 2017

Drilling Fluids & Chemicals Market in the US, May 2017

World Flat Glass, August 2016

World Salt, July 2016

Industrial & Institutional (I&I) Cleaning Chemicals, June 2016

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Flat Glass: United States

Industrial & Institutional Cleaning Chemicals: United States

Polyvinyl Chloride: United States

Potash: United States

Salt: United States

Thermoplastic Resins: United States

Water Treatment Chemicals: United States

Freedonia Custom Research

Trade Publications

Chemical & Engineering News

Chemical Week

ICIS Chemical Business

Journal of Light Construction

Oil & Gas Journal

Agencies & Associations

American Chemical Society

American Chemistry Council

American Natural Soda Ash Corporation

The Chlorine Institute

Federal Reserve Bank of St. Louis

United States Census Bureau

United States Environmental Protection Agency

United States Geological Survey

United States International Trade Commission

The Vinyl Institute

World Chlorine Council