

Hydrogen Peroxide

July 2025

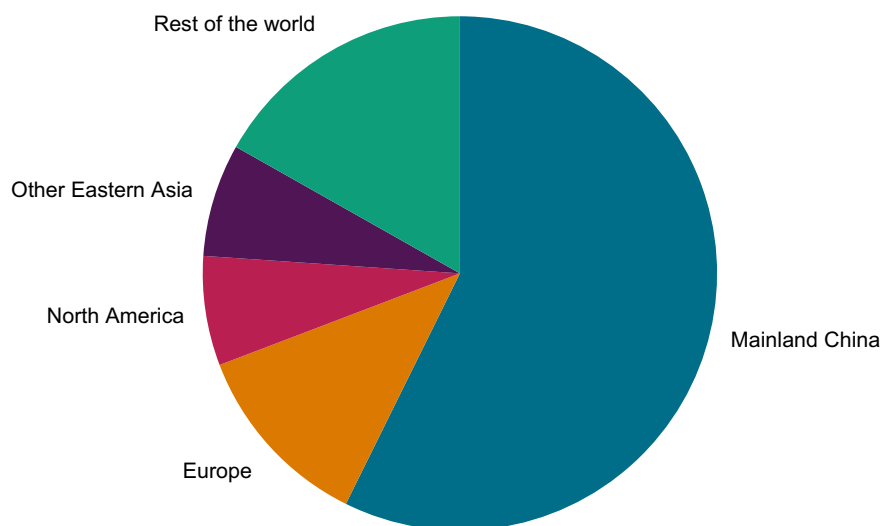
Abstract

In most markets, hydrogen peroxide functions as a bleach or oxidizer. As such, it often competes with other chemicals capable of performing similarly. Some derivatives (e.g., perborates) also function as bleaching or oxidizing agents. Regional cost differences, consumer preferences and technical differences in product performance enter into the decision to use hydrogen peroxide or one of its derivatives rather than another product. Since these considerations vary by region, the consumption patterns vary in different parts of the world.

Historically, the pulp and paper industry had been the largest consumer of hydrogen peroxide. However, caprolactam has recently surpassed it to become the leading consumer. Additionally, the production of propylene oxide through the HPPO process is projected to soon overtake pulp and paper, making it the second-largest application for hydrogen peroxide in 2025. As a result, the pulp and paper sector is expected to be the third-largest application through the forecast period.

The following pie chart shows world consumption of hydrogen peroxide:

World consumption of hydrogen peroxide — 2025



Data compiled May 13, 2025.
Source: S&P Global Commodity Insights.
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During 2025–30, the hydrogen peroxide market is expected to continue to grow.

Iron phosphate, the precursor for lithium iron phosphate (LFP) battery, has been the fastest-growing chemical derivative; hydrogen peroxide is used as an oxidant in the production of iron phosphate. Demand growth of hydrogen peroxide for iron phosphate production is expected to continue over the forecast period. Hydrogen peroxide demand for this application is mainly located in Eastern Asia.

The other downstream chemical markets are expected to grow, with the exception of sodium percarbonate. The trend toward liquid detergents continues at the expense of powder detergent use and percarbonate use accordingly. Perborate is having a renaissance after nearly disappearing in powder detergents. Uses of hydrogen peroxide and peracetic acid as a disinfectant, for microbial control, for animal hygiene and in environmental and industrial areas of use are also growing at healthy rates.

Other smaller segments of downstream chemical use, i.e., epoxidized vegetable oils and peracetic acid, are also growing and they are being increasingly used as plasticizers in a growing plastics market and as an oxidizing agent, respectively.

Consumption of hydrogen peroxide as an oxidizing agent in the environmental segment has grown significantly in the last five years. Hydrogen peroxide has the reputation of being an environmentally friendly and efficient product. As environmental awareness is increasing globally and legislative requirements are becoming more stringent, this market is expected to remain important in the forecast period and result in increasing consumption of hydrogen peroxide.

Specialty grades of hydrogen peroxide are being used in food, cosmetics and the electronics industry, and have been growing in line with growth in these industries. For the forecast period, it is expected that a growing world population, increasing average wealth and increasing disposable incomes will continue to result in growing consumption of hydrogen peroxide in these sectors.

For more detailed information, see the table of contents, shown below.

S&P Global Chemical Economics Handbook – Hydrogen Peroxide is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including



Global summary;
regional coverage



Producers with
annual capacities
and plant sites



Production figures
and trends



Consumption and
forecasts by end use
application



Manufacturing
processes and
environmental issues



Trade – imports
and exports

Key benefits

S&P Global's Chemical Economics Handbook – *Hydrogen Peroxide* has been compiled using primary interviews with key suppliers, organizations and leading representatives from the industry in combination with S&P Global's unparalleled access to upstream and downstream market intelligence, expert insights into industry dynamics, trade and economics.

This report can help you:

- Identify trends and driving forces influencing chemical markets
- Forecast and plan for future demand
- Understand the impact of competing materials
- Identify and evaluate potential customers and competitors
- Evaluate producers
- Track changing prices and trade movements
- Analyze the impact of feedstocks, regulations and other factors on chemical profitability

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