

Hydrogen Peroxide

July 2025

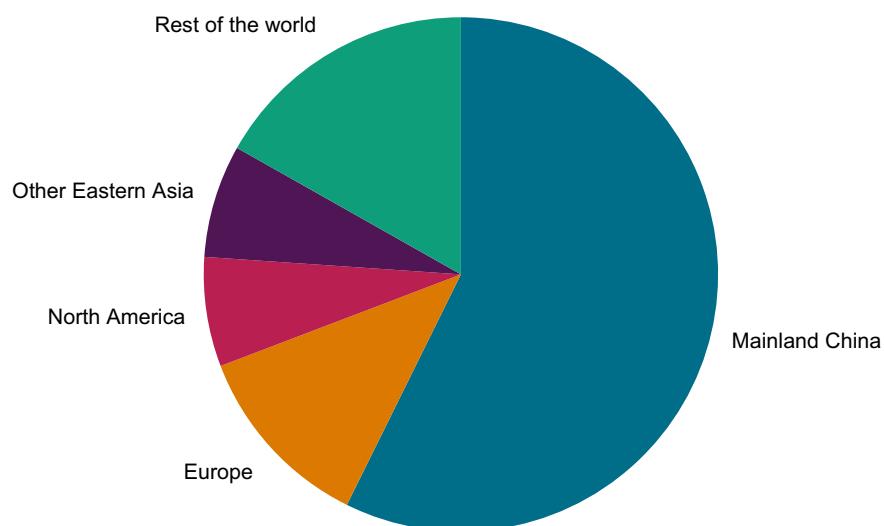
Abstract

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.

© 2025 S&P Global.

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



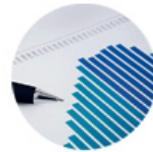
Global summary;
regional coverage



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

Table of contents

Executive summary	7
Summary	8
Introduction	13
Manufacturing processes	14
Anthraquinone autoxidation	14
Electrolysis	15
Direct synthesis	15
Other	15
Supply and demand by region	17
North America	17
United States	19
Producing companies	19
Salient statistics	20
Consumption	22
Pulp and paper mills	23
Chemicals	24
Mining and environmental applications	27
Textiles	28
Electronics	29
Other	30
Price	31
Trade	31
Imports	31
Exports	32
Canada	33
Producing companies	33
Salient statistics	33
Consumption	34
Pulp and paper	35
Mining and environmental	35
Other	36
Price	36
Trade	36
Imports	37
Exports	37
Latin America and the Caribbean	38
Mexico	38
Producing companies	38
Salient statistics	38
Consumption	39
Trade	39
Imports	39

Exports	40
Central and South America	40
Producing companies	40
Salient statistics	42
Consumption	43
Pulp and paper	44
Chemicals	44
Mining and environmental applications	45
Other	45
Trade	45
Imports	45
Exports	46
Western Europe	46
Producing companies	47
Salient statistics	48
Production	49
Consumption	49
Pulp and paper	51
Chemicals and laundry products	51
Laundry products	52
Other inorganic and organic chemicals	53
Textiles	55
Electronics	55
Battery recycling	55
Environmental applications	55
Other	56
Price	56
Trade	57
Central and Eastern Europe	59
Producing companies	59
Salient statistics	59
Consumption	60
Trade	62
Eurasia	63
Producing companies	63
Salient statistics	64
Consumption	65
Pulp and paper	66
Downstream chemical uses	66
Sodium percarbonate	66
Mining	66
Trade	66
Middle East	67
Producing companies	67
Salient statistics	68
Consumption	69
Trade	70

Africa	71
Producing companies	71
Salient statistics	72
Consumption	73
Trade	74
Southern Asia	75
India	75
Producing companies	75
Salient statistics	76
Consumption	76
Price	77
Trade	78
Other Southern Asia	79
Producing companies	79
Salient statistics	81
Consumption	81
Price	82
Trade	82
Mainland China	83
Producing companies	84
Salient statistics	87
Consumption	88
Pulp and paper	89
Textiles	90
Chemical manufacture	90
Inorganics	91
Organics	93
Electronics	95
Battery recycling	95
Mining	95
Environmental applications	95
Aseptic packaging	95
Other	95
Price	95
Trade	96
Japan	97
Producing companies	97
Salient statistics	98
Consumption	98
Chemicals and laundry products	99
Inorganic chemicals and laundry products	99
Organic chemicals	99
Water treatment	100
Electronics	100
Pulp and paper	101
Textiles	102
Food	102

Other	102
Price	102
Trade	103
Imports	103
Exports	104
South Korea	104
Producing companies	104
Salient statistics	105
Consumption	106
Pulp and paper	107
Textiles	107
Chemical and derivatives	107
Electronics	107
Food, environment and others	108
Trade	108
Taiwan	109
Producing companies	109
Salient statistics	110
Consumption	110
Trade	111
South-eastern Asia	112
Producing companies	112
Salient statistics	114
Consumption	115
Price	116
Trade	117
Oceania	118
Producing companies	118
Salient statistics	118
Consumption	119
Trade	120
Appendix — Geographic regions	121
Additional resources	122
Revisions	123

CONTACTS

Americas: +1 800 597 1344

Asia-Pacific: +60 4 296 1125

Europe, Middle East, Africa: +44 (0) 203 367 0681

www.spglobal.com/commodityinsights

www.spglobal.com/en/enterprise/about/contact-us.html

© 2025 by S&P Global Inc. All rights reserved.

S&P Global, the S&P Global logo, S&P Global Commodity Insights, and Platts are trademarks of S&P Global Inc. Permission for any commercial use of these trademarks must be obtained in writing from S&P Global Inc.

You may view or otherwise use the information, prices, indices, assessments and other related information, graphs, tables and images (“Data”) in this publication only for your personal use or, if you or your company has a license for the Data from S&P Global Commodity Insights and you are an authorized user, for your company’s internal business use only. You may not publish, reproduce, extract, distribute, retransmit, resell, create any derivative work from and/or otherwise provide access to the Data or any portion thereof to any person (either within or outside your company, including as part of or via any internal electronic system or intranet), firm or entity, including any subsidiary, parent, or other entity that is affiliated with your company, without S&P Global Commodity Insights’ prior written consent or as otherwise authorized under license from S&P Global Commodity Insights. Any use or distribution of the Data beyond the express uses authorized in this paragraph above is subject to the payment of additional fees to S&P Global Commodity Insights.

S&P Global Commodity Insights, its affiliates and all of their third-party licensors disclaim any and all warranties, express or implied, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use as to the Data, or the results obtained by its use or as to the performance thereof. Data in this publication includes independent and verifiable data collected from actual market participants. Any user of the Data should not rely on any information and/or assessment contained therein in making any investment, trading, risk management or other decision. S&P Global Commodity Insights, its affiliates and their third-party licensors do not guarantee the adequacy, accuracy, timeliness and/or completeness of the Data or any component thereof or any communications (whether written, oral, electronic or in other format), and shall not be subject to any damages or liability, including but not limited to any indirect, special, incidental, punitive or consequential damages (including but not limited to, loss of profits, trading losses and loss of goodwill).

ICE index data and NYMEX futures data used herein are provided under S&P Global Commodity Insights’ commercial licensing agreements with ICE and with NYMEX. You acknowledge that the ICE index data and NYMEX futures data herein are confidential and are proprietary trade secrets and data of ICE and NYMEX or its licensors/suppliers, and you shall use best efforts to prevent the unauthorized publication, disclosure or copying of the ICE index data and/or NYMEX futures data.

Permission is granted for those registered with the Copyright Clearance Center (CCC) to copy material herein for internal reference or personal use only, provided that appropriate payment is made to the CCC, 222 Rosewood Drive, Danvers, MA 01923, phone +1-978-750-8400. Reproduction in any other form, or for any other purpose, is forbidden without the express prior permission of S&P Global Inc. For article reprints contact: The YGS Group, phone +1-717-505-9701 x105 (800-501-9571 from the U.S.).

For all other queries or requests pursuant to this notice, please contact S&P Global Inc. via email at ci.support@spglobal.com