Hydrogen Peroxide - Global Strategic Business Report

Description: This report analyzes the worldwide markets for Hydrogen Peroxide in Thousand Metric Tons by the following End-Use Industries: Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Others. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World.

Annual estimates and forecasts are provided for the period 2015 through 2022. Also, a six-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs. The report profiles 35 companies including many key and niche players such as -

- AkzoNobel N.V
- Arkema S.A
- Chang Chun Petrochemical Co., Ltd.
- Evonik Industries AG
- Guangdong Zhongcheng Chemicals Inc., Ltd.

Contents:

HYDROGEN PEROXIDE

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

A Rudimentary Market Overview

Factors Influencing H2O2 Market Worldwide (On a Scale of 1-10)

Key Characteristics of Hydrogen Peroxide that Make it a Much-in-Demand Chemical Compound for Wide Ranging Applications

A Stronger Oxidizer/Oxidizing Agent

Table 1: Various Oxidants and their Respective Oxidation Potential (includes corresponding Graph/Chart)

Environmental Friendly Characteristics

A Major Draw for Hydrogen Peroxide

Stringent Environmental Regulations Provide Early Impetus to the Market

High Selectivity Makes H2O2 an Elective for a Wide Gamut of Applications

H2O2 is Relatively Safer & Versatile

Ability to Generate High Pressure, High Temperature, & Superheated Steam Required for Multiple Applications

Usage as a Bleaching Agent

A Major Application of Hydrogen Peroxide

Nature’s Own Preservative and Disinfectant

Effective Sterilization Agent

Current & Future Analysis

Trade Scenario

Table 2: Global Hydrogen Peroxide Exports (2015): Percentage Share Breakdown of Export Value by Leading Exporting Nations (includes corresponding Graph/Chart)

Table 3: Global Hydrogen Peroxide Imports (2015): Percentage Share Breakdown of Import Value by Leading Importing Nations (includes corresponding Graph/Chart)

Competitive Landscape
2. NOTEWORTHY TRENDS GROWTH, DRIVERS & CHALLENGES

Mature Pulp & Paper Industry Continues to be the Most Dominant End-Use Market for H2O2

Factors Driving Consumption of Hydrogen Peroxide in the Pulp & Paper Industry

Environment Protection Regulation

A Peek into the Developmental Stages of Regulatory Stance that Soared H2O2 Use

Pollution Control Laws from EPA

EPA’s Cluster Rules

ECF and TCF Pulp Bleaching

US Favors ECF Over TCF

Impact of ECF Preferred Technology

Shift in Consumption Patterns

Consumption Pattern of Bleaching Chemicals

Switch from Chlorine to ECF Bleaching

Digitalization, Internet & the Move Towards Paperless World To Squeeze Demand for Hydrogen Peroxide in Paper & Pulp Industries

Impact of Source Reduction in Packaging on Paper Chemicals

Table 5: Global Paper & Pulp Industry: Annual Paper Production Volume (in Million Metric Tons) for years 2010-2015 (includes corresponding Graph/Chart)

Table 6: Global Paper & Pulp Industry: Annual Pulp Production Volume (in Million Tons) for years 2012-2015 (includes corresponding Graph/Chart)

Chemical Industry to Drive Rapid Gains in Hydrogen Peroxide Market

Key Opportunity Indicators

Table 7: Global Polyurethane Market: Annual Demand (in Kilo Tons) for Years 2012, 2014, 2016, 2018 & 2020 (includes corresponding Graph/Chart)

Environmental Applications to Lend Traction to Hydrogen Peroxide Market

Drinking Water and Effluent Treatment Plants

Potable Water Applications

Opportunity Indicators

Table 8: Percentage of Wastewater Treatment in Europe, Asia, Latin America, and Africa (includes corresponding Graph/Chart)

Table 9: Percentage of Contaminated Water in Drinking Water Supplies in Africa, Asia, and Latin America and Caribbean

Textile Industry Adds to the Growth Prospects for Hydrogen Peroxide Market

Table 10: Global Textile Industry: Annual Textile Manufacturing Market Value in US$ Million & Growth Rates for Years 2014-2018P (includes corresponding Graph/Chart)

Household Products & Applications Lend Traction to the Market

Production of Detergents and Household Laundry Pre-Wash & In Wash Additives

As Household Disinfectant, Sanitizing & Cleaning Agents

Household Health & Medical Aid

Production of Tooth Paste

Personal Care

Food Preparation & Decontamination

Emerging & Niche Market Applications Augurs Well for Future of Hydrogen Peroxide Market in the Years to Come

New Catalyst Enables Single-Step Process of Hydrogen Peroxide

Developing Markets to Drive Growth

3. PRODUCT OVERVIEW

Production

Physical Properties

Chemical Properties

Reactivity

Precautions

Other Properties

Powerful Oxidizer

Safe....

Versatile....

Selective....

Production Methods
Grades of Hydrogen Peroxide
Most Commonly Used Grades of Peroxide
Hydrogen Peroxide Applications
Pulp & Paper
Environmental Applications
Chemical Synthesis
Consumer Products & Household Cleaning Applications
Textile Applications
Electronics & Semiconductors
Paint and Polymer Production
Metal Extraction, Treatment and Purification
Mining
Stainless Steel Industry
Tanneries
Rocket Fuel
Medical Applications and Devices
Prevention of Cold and Flu
Biosensors
Key Role in Inflammation and Diagnostic Applications
Hydrogen Peroxide & Pollution Prevention
Catalytic H2O2
Solution Catalysis
Packed Column Catalysis
Vapor Phase Hydrogen Peroxide
Applications
Drawbacks of VHP
Production Technique
New Cleaner Ketone Oxidation Process Set to Expand H2O2's Horizons
H2O2 to Fuel the Development of Fuel Cell
Substitutes of Hydrogen Peroxide
A Snapshot
Sodium Chlorate
Factors Impacting Sodium Chlorate Market
Sodium Hydrosulfite
Ozone
Trend Towards Greater Ozone Usage
Sodium Hypochlorite
Hydrogen Peroxide Scores over Sodium Hypochlorite
Classification of Applications of Hydrogen Peroxide by Features
Stand-Alone Applications
Odor Control & Color Removal
Corrosion Control
BOD/COD Control
Metal Oxidation
Disinfection/Bio-Control
Enhancement (Combination) Applications
Flocculation Precipitation
Air Flotation
Biotreatment
Carbon Adsorption
Organonitriles

4. RECENT INDUSTRY ACTIVITY
Solvay Optimizes Production Technology and Set to Raise Capacity at its H2O2 Production Plant in Voikkaa
AkzoNobel Acquires Outstanding Shares in EkO Peroxide
Evonik Completes Acquisition of PeroxyChem Netherlands
Evonik Resource Efficiency Obtains GMP Certification & Manufacturer’s Authorization for PERSYNT®
Solvay Upgrades its Peroxide Operations & Opens Premises to Other Companies
BASF, SK & Solvay Plan to Start Production of Hydrogen Peroxide & Propylene Oxide in South Korea
Evonik and Brenntag Join Hands to Market Specialized Hydrogen Peroxide and Peracetic Acid to Pharma & Cosmetics Markets
Solvay to Expand its Peroxides Production Facility in Longview, Washington to Serve North American Market
Solvay and Revolymer Enter into a Global License Agreement to Boost Performance of Eureco™ Organic
Peroxide
Solvay to Establish a New Manufacturing & Filling Facility in Netherlands for Production of Hydrogen Peroxide
Kemira to Make Massive Investments in its Hydrogen Peroxide Production Plant in Oulu
Sealed Air Takes Over Accel Brand & Related Healthcare Business of Virox Technologies in the US & Canada
FMC Sells its Peroxogens Business
Awash Melkasa to Build Hydrogen Peroxide Plant
Saudi Hydrogen Peroxide Company Commences Construction of HP Plant
Kemira Expands its HP Plant in Uruguay
Evonik’s Joint HP Plant to Commence Production
Hodogaya Chemical to Merge with its Subsidiary
Evonik to Enter Specialty Chemicals JV with Petronas

5. FOCUS ON SELECT PLAYERS

AkzoNobel N.V. (Netherlands)
Arkema S.A. (France)
Arkema, Inc. (USA)
Chang Chun Petrochemical Co., Ltd. (Taiwan)
Evonik Industries AG (Germany)
Evonik Corporation (USA)
Guangdong Zhongcheng Chemicals Inc., Ltd. (China)
Hansol Chemicals (Korea)
Hodogaya Chemical Co. Ltd. (Japan)
Kemira Oyj (Finland)
Kingboard Chemical Holdings Ltd. (China)
Mitsubishi Gas Chemical Company, Inc. (Japan)
National Peroxide Limited (India)
OCI Company Ltd. (South Korea)
Solvay SA (Belgium)
Solvay in the USA (USA)
Solvay Interox Pty Ltd (Australia)

6. GLOBAL MARKET PERSPECTIVE

Table 11: World Recent Past, Current & Future Analysis for Hydrogen Peroxide by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets
Independently Analyzed with Annual Sales Figures in Thousand Metric Tons for Years 2015 through 2022
(includes corresponding Graph/Chart)
Table 12: World Historic Review for Hydrogen Peroxide by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets
Independently Analyzed with Annual Sales Figures in Thousand Metric Tons for Years 2009 through 2014
(includes corresponding Graph/Chart)
Table 13: World 14-Year Perspective for Hydrogen Peroxide by Geographic Region
Percentage Breakdown of Volume Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)
By End Use Sector
Table 14: World Recent Past, Current & Future Analysis for Hydrogen Peroxide in Pulp & Paper by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets
Independently Analyzed with Annual Sales Figures in Thousand Metric Tons for Years 2015 through 2022
(includes corresponding Graph/Chart)
Table 15: World Historic Review for Hydrogen Peroxide in Pulp & Paper by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets
Independently Analyzed with Annual Sales Figures in Thousand Metric Tons for Years 2009 through 2014
(includes corresponding Graph/Chart)
Table 16: World 14-Year Perspective for Hydrogen Peroxide in Pulp & Paper by Geographic Region
Percentage Breakdown of Volume Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)
Table 17: World Recent Past, Current & Future Analysis for Hydrogen Peroxide in Textiles by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets
Independently Analyzed with Annual Sales Figures in Thousand Metric Tons for Years 2015 through 2022
(includes corresponding Graph/Chart)
Table 18: World Historic Review for Hydrogen Peroxide in Textiles by Geographic Region
III. MARKET

1. THE UNITED STATES
A. Market Analysis
   Current and Future Analysis
   Despite Fall in Consumption of Writing & Print Paper, Pulp & Paper Industry Remains Largest End-Use
   Market for Hydrogen Peroxide in the US
   Laundry Industry
   A Market Laden with Tremendous Potential for Hydrogen Peroxide
   Chlorine Purge Enhances Chlorate and Peroxide Demand
   Historical Trends in the Industry
   Reduction of BCTMP Pulp Production Slows H2O2 Demand
   Impact of EPA's Regulations
   Key Export and Import Data

Table 29: US Hydrogen Peroxide Exports (2015): Percentage Share Breakdown of Export Value by Country of Destination (includes corresponding Graph/Chart)

Table 30: US Hydrogen Peroxide Imports (2015): Percentage Share Breakdown of Import Value by Source Country (includes corresponding Graph/Chart)
Competition
Recent Past Perspective
Table 31: US Hydrogen Peroxide Market (2013): Annual Production Capacity and Percentage Share
Breakdown by Company (includes corresponding Graph/Chart)
Strategic Corporate Developments
Key Players
B. Market Analytics
Table 32: US Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
Graph/Chart)
Table 33: US Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
Graph/Chart)
Table 34: US 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

2. CANADA
A. Market Analysis
Current and Future Analysis
Canadian Government Regulates the Use of Hydrogen Peroxide
Impact of EPA Cluster Rules
B. Market Analytics
Table 35: Canadian Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
Graph/Chart)
Table 36: Canadian Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
Graph/Chart)
Table 37: Canadian 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

3. JAPAN
A. Market Analysis
Current and Future Analysis
Major Manufacturers
Table 38: Hydrogen Peroxide Annual Production Capacity of Mitsubishi Gas Chemical Company by Location
in Japan (2014) (includes corresponding Graph/Chart)
Table 39: Hydrogen Peroxide Annual Production Capacity of Mitsubishi Gas Chemical Company with Joint
Venture Partner by Location (2014) (includes corresponding Graph/Chart)
Strategic Corporate Development
Key Players
B. Market Analytics
Table 40: Japanese Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
Graph/Chart)
Table 41: Japanese Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
Graph/Chart)
Table 42: Japanese 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4. EUROPE
A. Market Analysis
Current and Future Analysis
Regulatory Issues Affecting the Market for Hydrogen Peroxide
Leading Players
Recent Past Perspective
Table 43: European Hydrogen Peroxide Market (2013): Annual Production Capacity and Percentage Share Breakdown by Company (includes corresponding Graph/Chart)
Bleaching Chemicals in Western Europe
B. Market Analytics
Table 44: European Recent Past, Current & Future Analysis for Hydrogen Peroxide by Geographic Region France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 45: European Historic Review for Hydrogen Peroxide by Geographic Region France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)
Table 46: European 14-Year Perspective for Hydrogen Peroxide by Geographic Region Percentage Breakdown of Volume Sales for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)
Table 47: European Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 48: European Historic Review for Hydrogen Peroxide by End-Use Industry Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)
Table 49: European 14-Year Perspective for Hydrogen Peroxide by End-Use Industry Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4a. FRANCE
A. Market Analysis
Current and Future Analysis
Key Player
B. Market Analytics
Table 50: French Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 51: French Historic Review for Hydrogen Peroxide by End-Use Industry Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)
Table 52: French 14-Year Perspective for Hydrogen Peroxide by End-Use Industry Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4b. GERMANY
A. Market Analysis
Current and Future Analysis
Strategic Corporate Developments
Key Player
B. Market Analytics
Table 53: German Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 54: German Historic Review for Hydrogen Peroxide by End-Use Industry Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)
Table 55: German 14-Year Perspective for Hydrogen Peroxide by End-Use Industry Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)
4c. ITALY
A. Market Analysis
   Current and Future Analysis
B. Market Analytics
   Table 56: Italian Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
   Graph/Chart)
   Table 57: Italian Historic Review for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
   Graph/Chart)
   Table 58: Italian 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
   Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
   Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4d. THE UNITED KINGDOM
A. Market Analysis
   Current and Future Analysis
B. Market Analytics
   Table 59: UK Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
   Graph/Chart)
   Table 60: UK Historic Review for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
   Graph/Chart)
   Table 61: UK 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
   Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
   Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4e. SPAIN
A. Market Analysis
   Current and Future Analysis
B. Market Analytics
   Table 62: Spanish Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
   Graph/Chart)
   Table 63: Spanish Historic Review for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
   Graph/Chart)
   Table 64: Spanish 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
   Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
   Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4f. RUSSIA
A. Market Analysis
   Current and Future Analysis
B. Market Analytics
   Table 65: Russian Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
   Graph/Chart)
   Table 66: Russian Historic Review for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
   Graph/Chart)
   Table 67: Russian 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
   Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

4g. REST OF EUROPE
A. Market Analysis
   Current and Future Analysis
   Strategic Corporate Developments
   Key Players
B. Market Analytics
   Table 68: Rest of Europe Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
   Graph/Chart)
   Table 69: Rest of Europe Historic Review for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
   Graph/Chart)
   Table 70: Rest of Europe 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
   Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
   Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC
A. Market Analysis
   Current and Future Analysis
   Leading Players & their Production Capacity
   Recent Past Perspective
   Table 71: Asia-Pacific Hydrogen Peroxide Market (2013): Annual Production Capacity by Company in
   Thousand Metric Tons (includes corresponding Graph/Chart)
B. Market Analytics
   Table 72: Asia-Pacific Recent Past, Current & Future Analysis for Hydrogen Peroxide by Geographic Region
   China, India, and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in Metric
   Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)
   Table 73: Asia-Pacific Historic Review for Hydrogen Peroxide by Geographic Region
   China, India, and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in Metric
   Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)
   Table 74: Asia-Pacific 14-Year Perspective for Hydrogen Peroxide by Geographic Region
   Percentage Breakdown of Volume Sales for China, India, and Rest of Asia-Pacific Markets for Years 2009,
   2016, & 2022 (includes corresponding Graph/Chart)
   Table 75: Asia-Pacific Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
   Graph/Chart)
   Table 76: Asia-Pacific Historic Review for Hydrogen Peroxide by End-Use Industry
   Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
   Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
   Graph/Chart)
   Table 77: Asia-Pacific 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
   Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
   Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

5a. CHINA
A. Market Analysis
   Current and Future Analysis
   Mixed Bag Outlook for Chinese Market Even as the Nation Continues to Remain the Largest Regional Market
   for Hydrogen Peroxide in the World
   Key End-Use Markets Analyzed
   Table 78: Chinese Water Treatment Market
   Comparative Analysis of 2009 and 2015 Market Estimates (Rmb Billion) (includes corresponding
   Graph/Chart)
   Increasing Use of Hydrogen Obtained from Chlor-Alkali Plants
   China- A Manufacturing Hub for Overseas Players
   Leading Players & Production Capacities
   A Recent Past Perspective
   Table 79: Chinese Hydrogen Peroxide Market (2013): Annual Production Capacity and Percentage Share
Breakdown by Company (includes corresponding Graph/Chart)
Strategic Corporate Development
Key Players
B.Market Analytics
Table 80: Chinese Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
Graph/Chart)
Table 81: Chinese Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
Graph/Chart)
Table 82: Chinese 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

5b. INDIA
A.Market Analysis
Current and Future Analysis
Key Player
B.Market Analytics
Table 83: Indian Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
Graph/Chart)
Table 84: Indian Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
Graph/Chart)
Table 85: Indian 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

5c. REST OF ASIA-PACIFIC
A.Market Analysis
Current and Future Analysis
Focus on Select Markets
Australia
Australian Government Considers H2O2 as Security Threat
Indonesia
Increasing Demand for Hydrogen Peroxide
Korea
Semiconductor Industry and Environmental Applications to Fuel Growth
Strategic Corporate Development
Key Players
B.Market Analytics
Table 86: Rest of Asia-Pacific Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding
Graph/Chart)
Table 87: Rest of Asia-Pacific Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding
Graph/Chart)
Table 88: Rest of Asia-Pacific 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and
Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

6. LATIN AMERICA
A.Market Analysis
Current and Future Analysis
Table 89: Hydrogen Peroxide Market in Mercosur (2013): Annual Production Capacity by Company in
Thousand Metric Tons (includes corresponding Graph/Chart)

Focus on Select Markets

Brazil
Pulp & Paper Market to Drive Sales

Chile
An Import Market

B. Market Analytics

Table 90: Latin American Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 91: Latin American Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 92: Latin American 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

7. REST OF WORLD

A. Market Analysis
Current and Future Analysis
Strategic Corporate Developments

B. Market Analytics

Table 93: Rest of World Recent Past, Current & Future Analysis for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 94: Rest of World Historic Review for Hydrogen Peroxide by End-Use Industry
Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries Independently
Analyzed with Annual Sales Figures in Metric Tons for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 95: Rest of World 14-Year Perspective for Hydrogen Peroxide by End-Use Industry
Percentage Breakdown of Volume Sales for Pulp & Paper, Textiles, Environmental, Chemical Synthesis, and Other End-Use Industries for Years 2009, 2016, & 2022 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 35 (including Divisions/Subsidiaries 47)
The United States (9)
Japan (6)
Europe (9)
  - France (1)
  - Germany (1)
  - Rest of Europe (7)
Asia-Pacific (Excluding Japan) (21)
Latin America (1)
Middle East (1)

Ordering:
Order Online - http://www.researchandmarkets.com/reports/338599/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

- **Product Name:** Hydrogen Peroxide - Global Strategic Business Report
- **Web Address:** [http://www.researchandmarkets.com/reports/338599/](http://www.researchandmarkets.com/reports/338599/)
- **Office Code:** SCG3LZ7P

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td>USD 4500</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users</td>
<td>USD 6300</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 10 Users</td>
<td>USD 8550</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 15 Users</td>
<td>USD 10800</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

- **Title:** [ ] Mr  [ ] Mrs  [ ] Dr  [ ] Miss  [ ] Ms  [ ] Prof
- **First Name:** ____________________________  **Last Name:** ____________________________
- **Email Address:** * ____________________________
- **Job Title:** ____________________________
- **Organisation:** ____________________________
- **Address:** ____________________________
- **City:** ____________________________
- **Postal / Zip Code:** ____________________________
- **Country:** ____________________________
- **Phone Number:** ____________________________
- **Fax Number:** ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World