

Global N-Butylene Oxide 1,2 Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global N-Butylene Oxide 1,2 market size was valued at US\$ 69.9 million in 2023 and is forecast to a readjusted size of USD 110 million by 2030 with a CAGR of 6.7% during review period.

N-Butylene Oxide 1,2 is an organic compound with ethereal odor. N- Butylene Oxide 1,2 is also known as 1,2-Epoxybutane, ?-Butylene oxide, 1,2-Buteneoxide and 1,2-Butyleneoxide. It is flammable liquid and is soluble in water. N-butylene oxide 1,2 is clear colorless volatile liquid. N-butylene oxide 1,2 is a chiral epoxide synthesized through oxidation of 1-butene. The two main manufacturing processes of N-butylene oxide 1,2 are direct oxidation process and chlorohydrin process.

Currently, N-Butylene Oxide 1,2 preparation methods include chlorohydrin method, epoxidation method and so on. Chlorohydrin method is the traditional preparation method of N-Butylene Oxide 1,2, which has the advantages of high technological maturity and low production cost, but it is very easy to cause environmental pollution and the purity of the finished product is low. The main raw materials for the production of N-Butylene Oxide 1,2 by chlorohydrin method are 1-butene, chlorine gas and lime milk, and the production process is divided into three parts: chlorohydrinization, saponification and refining. Chlorohydrin method is the traditional method to prepare low carbon epoxide, although this method does not require high purity of raw materials, but in the production process consumes a large amount of C12 and produces wastewater containing CaCl₂ and organochlorine, chlorohydrin method will be gradually phased out due to its serious pollution problems. Epoxidation is an emerging method for the preparation of N-Butylene Oxide 1,2, which can be subdivided into hydrogen peroxide oxidation (HPPO) and hydroisopropylbenzene oxidation (CHP). CHP method refers to the production of epoxybutane as well as ?,?-dimethylbenzyl alcohol with butene as the

raw material and isopropylbenzene peroxide as the oxidizing agent, which is fully reacted to produce the epoxybutane and 2,2-dimethylbenzyl alcohol, and the method has the advantages of simple production process, green environmental protection and so on. The production of N-Butylene Oxide 1,2 by HPPO is a new method. The main raw materials of N-Butylene Oxide 1,2 are 1-butene and peroxyacetic acid. Under the action of catalyst, the active oxygen in peroxyacetic acid is transferred to 1-butene to obtain N-Butylene Oxide 1,2. Compared with the chlorohydrin method, peroxyacetic acid method has the advantages of no three-waste pollution, small steam consumption, and the by-product acetic acid can be recycled, but the reaction system of this method contains a large amount of acid, which is a serious corrosion of the equipment, and the operation requirements are also higher.

In recent years, with the application of titanium-silicon molecular sieves expanding, the method of preparing N-Butylene Oxide 1,2 by direct epoxidation of 1-butene with hydrogen peroxide as the oxidizing agent is beginning to get people's attention. This method not only has mild reaction conditions, but also greatly reduces the pollution to the environment.

At present, only BASF and Sinopec Yanshan Petrochemical is the company in the global commercial production.

On November 9, 2023, SINOPEC Yanshan Petrochemical's 4,000 tons/year CHP method N-Butylene Oxide 1,2 plant was successfully put into operation, which is the first CHP method N-Butylene Oxide 1,2 plant in the world.

In consumption market, Asia-Pacific is the fastest growing consumption regions due to the bigger demand of downstream applications and the commissioning of Sinopec Yanshan Petrochemical. Asia-Pacific occupied 31% of the global consumption revenue in total.

In terms of product market applications, the major ones are chemical intermediates, stabilizer for industrial solvents, nonionic surfactants and others. Among them, chemical intermediates is the most dominant application. the product sale share was 62%.

This report is a detailed and comprehensive analysis for global N-Butylene Oxide 1,2 market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global N-Butylene Oxide 1,2 market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (USD/MT), 2019-2030

Global N-Butylene Oxide 1,2 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (USD/MT), 2019-2030

Global N-Butylene Oxide 1,2 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (USD/MT), 2019-2030

Global N-Butylene Oxide 1,2 market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (USD/MT), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for N-Butylene Oxide 1,2

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global N-Butylene Oxide 1,2 market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Sinopec Yanshan Petrochemical, Kishida Chemical, Santa Cruz Biotechnology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

N-Butylene Oxide 1,2 market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Low Purity N-Butylene Oxide 1,2
- High Purity N-Butylene Oxide 1,3

Market segment by Application

- Chemical Intermediate
- Stabilizer for Industrial Solvents

- Nonionic Surfactant
- Others

Major players covered

- BASF
- Sinopec Yanshan Petrochemical
- Kishida Chemical
- Santa Cruz Biotechnology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe N-Butylene Oxide 1,2 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of N-Butylene Oxide 1,2, with price, sales quantity, revenue, and global market share of N-Butylene Oxide 1,2 from 2019 to 2024.

Chapter 3, the N-Butylene Oxide 1,2 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the N-Butylene Oxide 1,2 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019

to 2024.and N-Butylene Oxide 1,2 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of N-Butylene Oxide 1,2.

Chapter 14 and 15, to describe N-Butylene Oxide 1,2 sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global N-Butylene Oxide 1,2 Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 Low Purity N-Butylene Oxide 1,2

1.3.3 High Purity N-Butylene Oxide 1,3

1.4 Market Analysis by Application

1.4.1 Overview: Global N-Butylene Oxide 1,2 Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Chemical Intermediate

1.4.3 Stabilizer for Industrial Solvents

1.4.4 Nonionic Surfactant

1.4.5 Others

1.5 Global N-Butylene Oxide 1,2 Market Size & Forecast

1.5.1 Global N-Butylene Oxide 1,2 Consumption Value (2019 & 2023 & 2030)

1.5.2 Global N-Butylene Oxide 1,2 Sales Quantity (2019-2030)

1.5.3 Global N-Butylene Oxide 1,2 Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 BASF

2.1.1 BASF Details

2.1.2 BASF Major Business

2.1.3 BASF N-Butylene Oxide 1,2 Product and Services

2.1.4 BASF N-Butylene Oxide 1,2 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 BASF Recent Developments/Updates

2.2 Sinopec Yanshan Petrochemical

2.2.1 Sinopec Yanshan Petrochemical Details

2.2.2 Sinopec Yanshan Petrochemical Major Business

2.2.3 Sinopec Yanshan Petrochemical N-Butylene Oxide 1,2 Product and Services

2.2.4 Sinopec Yanshan Petrochemical N-Butylene Oxide 1,2 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Sinopec Yanshan Petrochemical Recent Developments/Updates

2.3 Kishida Chemical

2.3.1 Kishida Chemical Details

2.3.2 Kishida Chemical Major Business

2.3.3 Kishida Chemical N-Butylene Oxide 1,2 Product and Services

2.3.4 Kishida Chemical N-Butylene Oxide 1,2 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Kishida Chemical Recent Developments/Updates

2.4 Santa Cruz Biotechnology

2.4.1 Santa Cruz Biotechnology Details

2.4.2 Santa Cruz Biotechnology Major Business

2.4.3 Santa Cruz Biotechnology N-Butylene Oxide 1,2 Product and Services

2.4.4 Santa Cruz Biotechnology N-Butylene Oxide 1,2 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Santa Cruz Biotechnology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: N-BUTYLENE OXIDE 1,2 BY MANUFACTURER

3.1 Global N-Butylene Oxide 1,2 Sales Quantity by Manufacturer (2019-2024)

3.2 Global N-Butylene Oxide 1,2 Revenue by Manufacturer (2019-2024)

3.3 Global N-Butylene Oxide 1,2 Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of N-Butylene Oxide 1,2 by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 N-Butylene Oxide 1,2 Manufacturer Market Share in 2023

3.4.3 Top 6 N-Butylene Oxide 1,2 Manufacturer Market Share in 2023

3.5 N-Butylene Oxide 1,2 Market: Overall Company Footprint Analysis

3.5.1 N-Butylene Oxide 1,2 Market: Region Footprint

3.5.2 N-Butylene Oxide 1,2 Market: Company Product Type Footprint

3.5.3 N-Butylene Oxide 1,2 Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global N-Butylene Oxide 1,2 Market Size by Region

4.1.1 Global N-Butylene Oxide 1,2 Sales Quantity by Region (2019-2030)

4.1.2 Global N-Butylene Oxide 1,2 Consumption Value by Region (2019-2030)

4.1.3 Global N-Butylene Oxide 1,2 Average Price by Region (2019-2030)

4.2 North America N-Butylene Oxide 1,2 Consumption Value (2019-2030)

- 4.3 Europe N-Butylene Oxide 1,2 Consumption Value (2019-2030)
- 4.4 Asia-Pacific N-Butylene Oxide 1,2 Consumption Value (2019-2030)
- 4.5 South America N-Butylene Oxide 1,2 Consumption Value (2019-2030)
- 4.6 Middle East & Africa N-Butylene Oxide 1,2 Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2030)
- 5.2 Global N-Butylene Oxide 1,2 Consumption Value by Type (2019-2030)
- 5.3 Global N-Butylene Oxide 1,2 Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2030)
- 6.2 Global N-Butylene Oxide 1,2 Consumption Value by Application (2019-2030)
- 6.3 Global N-Butylene Oxide 1,2 Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2030)
- 7.2 North America N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2030)
- 7.3 North America N-Butylene Oxide 1,2 Market Size by Country
 - 7.3.1 North America N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2030)
 - 7.3.2 North America N-Butylene Oxide 1,2 Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)
 - 7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2030)
- 8.2 Europe N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2030)
- 8.3 Europe N-Butylene Oxide 1,2 Market Size by Country
 - 8.3.1 Europe N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe N-Butylene Oxide 1,2 Consumption Value by Country (2019-2030)
 - 8.3.3 Germany Market Size and Forecast (2019-2030)
 - 8.3.4 France Market Size and Forecast (2019-2030)
 - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific N-Butylene Oxide 1,2 Market Size by Region

9.3.1 Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific N-Butylene Oxide 1,2 Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 South Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2030)

10.2 South America N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2030)

10.3 South America N-Butylene Oxide 1,2 Market Size by Country

10.3.1 South America N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2030)

10.3.2 South America N-Butylene Oxide 1,2 Consumption Value by Country
(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Application
(2019-2030)

11.3 Middle East & Africa N-Butylene Oxide 1,2 Market Size by Country

11.3.1 Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Country
(2019-2030)

11.3.2 Middle East & Africa N-Butylene Oxide 1,2 Consumption Value by Country
(2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

- 11.3.4 Egypt Market Size and Forecast (2019-2030)
- 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
- 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 N-Butylene Oxide 1,2 Market Drivers
- 12.2 N-Butylene Oxide 1,2 Market Restraints
- 12.3 N-Butylene Oxide 1,2 Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of N-Butylene Oxide 1,2 and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of N-Butylene Oxide 1,2
- 13.3 N-Butylene Oxide 1,2 Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 N-Butylene Oxide 1,2 Typical Distributors
- 14.3 N-Butylene Oxide 1,2 Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global N-Butylene Oxide 1,2 Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global N-Butylene Oxide 1,2 Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. BASF Basic Information, Manufacturing Base and Competitors
- Table 4. BASF Major Business
- Table 5. BASF N-Butylene Oxide 1,2 Product and Services
- Table 6. BASF N-Butylene Oxide 1,2 Sales Quantity (Tons), Average Price (USD/MT), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. BASF Recent Developments/Updates
- Table 8. Sinopec Yanshan Petrochemical Basic Information, Manufacturing Base and Competitors
- Table 9. Sinopec Yanshan Petrochemical Major Business
- Table 10. Sinopec Yanshan Petrochemical N-Butylene Oxide 1,2 Product and Services
- Table 11. Sinopec Yanshan Petrochemical N-Butylene Oxide 1,2 Sales Quantity (Tons), Average Price (USD/MT), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Sinopec Yanshan Petrochemical Recent Developments/Updates
- Table 13. Kishida Chemical Basic Information, Manufacturing Base and Competitors
- Table 14. Kishida Chemical Major Business
- Table 15. Kishida Chemical N-Butylene Oxide 1,2 Product and Services
- Table 16. Kishida Chemical N-Butylene Oxide 1,2 Sales Quantity (Tons), Average Price (USD/MT), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. Kishida Chemical Recent Developments/Updates
- Table 18. Santa Cruz Biotechnology Basic Information, Manufacturing Base and Competitors
- Table 19. Santa Cruz Biotechnology Major Business
- Table 20. Santa Cruz Biotechnology N-Butylene Oxide 1,2 Product and Services
- Table 21. Santa Cruz Biotechnology N-Butylene Oxide 1,2 Sales Quantity (Tons), Average Price (USD/MT), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. Santa Cruz Biotechnology Recent Developments/Updates
- Table 23. Global N-Butylene Oxide 1,2 Sales Quantity by Manufacturer (2019-2024) & (Tons)
- Table 24. Global N-Butylene Oxide 1,2 Revenue by Manufacturer (2019-2024) & (USD

Million)

Table 25. Global N-Butylene Oxide 1,2 Average Price by Manufacturer (2019-2024) & (USD/MT)

Table 26. Market Position of Manufacturers in N-Butylene Oxide 1,2, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023

Table 27. Head Office and N-Butylene Oxide 1,2 Production Site of Key Manufacturer

Table 28. N-Butylene Oxide 1,2 Market: Company Product Type Footprint

Table 29. N-Butylene Oxide 1,2 Market: Company Product Application Footprint

Table 30. N-Butylene Oxide 1,2 New Market Entrants and Barriers to Market Entry

Table 31. N-Butylene Oxide 1,2 Mergers, Acquisition, Agreements, and Collaborations

Table 32. Global N-Butylene Oxide 1,2 Consumption Value by Region (2019-2023-2030) & (USD Million) & CAGR

Table 33. Global N-Butylene Oxide 1,2 Sales Quantity by Region (2019-2024) & (Tons)

Table 34. Global N-Butylene Oxide 1,2 Sales Quantity by Region (2025-2030) & (Tons)

Table 35. Global N-Butylene Oxide 1,2 Consumption Value by Region (2019-2024) & (USD Million)

Table 36. Global N-Butylene Oxide 1,2 Consumption Value by Region (2025-2030) & (USD Million)

Table 37. Global N-Butylene Oxide 1,2 Average Price by Region (2019-2024) & (USD/MT)

Table 38. Global N-Butylene Oxide 1,2 Average Price by Region (2025-2030) & (USD/MT)

Table 39. Global N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2024) & (Tons)

Table 40. Global N-Butylene Oxide 1,2 Sales Quantity by Type (2025-2030) & (Tons)

Table 41. Global N-Butylene Oxide 1,2 Consumption Value by Type (2019-2024) & (USD Million)

Table 42. Global N-Butylene Oxide 1,2 Consumption Value by Type (2025-2030) & (USD Million)

Table 43. Global N-Butylene Oxide 1,2 Average Price by Type (2019-2024) & (USD/MT)

Table 44. Global N-Butylene Oxide 1,2 Average Price by Type (2025-2030) & (USD/MT)

Table 45. Global N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2024) & (Tons)

Table 46. Global N-Butylene Oxide 1,2 Sales Quantity by Application (2025-2030) & (Tons)

Table 47. Global N-Butylene Oxide 1,2 Consumption Value by Application (2019-2024) & (USD Million)

Table 48. Global N-Butylene Oxide 1,2 Consumption Value by Application (2025-2030) & (USD Million)

Table 49. Global N-Butylene Oxide 1,2 Average Price by Application (2019-2024) &

(USD/MT)

Table 50. Global N-Butylene Oxide 1,2 Average Price by Application (2025-2030) & (USD/MT)

Table 51. North America N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2024) & (Tons)

Table 52. North America N-Butylene Oxide 1,2 Sales Quantity by Type (2025-2030) & (Tons)

Table 53. North America N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2024) & (Tons)

Table 54. North America N-Butylene Oxide 1,2 Sales Quantity by Application (2025-2030) & (Tons)

Table 55. North America N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2024) & (Tons)

Table 56. North America N-Butylene Oxide 1,2 Sales Quantity by Country (2025-2030) & (Tons)

Table 57. North America N-Butylene Oxide 1,2 Consumption Value by Country (2019-2024) & (USD Million)

Table 58. North America N-Butylene Oxide 1,2 Consumption Value by Country (2025-2030) & (USD Million)

Table 59. Europe N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2024) & (Tons)

Table 60. Europe N-Butylene Oxide 1,2 Sales Quantity by Type (2025-2030) & (Tons)

Table 61. Europe N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2024) & (Tons)

Table 62. Europe N-Butylene Oxide 1,2 Sales Quantity by Application (2025-2030) & (Tons)

Table 63. Europe N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2024) & (Tons)

Table 64. Europe N-Butylene Oxide 1,2 Sales Quantity by Country (2025-2030) & (Tons)

Table 65. Europe N-Butylene Oxide 1,2 Consumption Value by Country (2019-2024) & (USD Million)

Table 66. Europe N-Butylene Oxide 1,2 Consumption Value by Country (2025-2030) & (USD Million)

Table 67. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2024) & (Tons)

Table 68. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Type (2025-2030) & (Tons)

Table 69. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2024) & (Tons)

Table 70. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Application (2025-2030) & (Tons)

Table 71. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Region (2019-2024) & (Tons)

Table 72. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity by Region (2025-2030) & (Tons)

Table 73. Asia-Pacific N-Butylene Oxide 1,2 Consumption Value by Region (2019-2024) & (USD Million)

Table 74. Asia-Pacific N-Butylene Oxide 1,2 Consumption Value by Region (2025-2030) & (USD Million)

Table 75. South America N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2024) & (Tons)

Table 76. South America N-Butylene Oxide 1,2 Sales Quantity by Type (2025-2030) & (Tons)

Table 77. South America N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2024) & (Tons)

Table 78. South America N-Butylene Oxide 1,2 Sales Quantity by Application (2025-2030) & (Tons)

Table 79. South America N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2024) & (Tons)

Table 80. South America N-Butylene Oxide 1,2 Sales Quantity by Country (2025-2030) & (Tons)

Table 81. South America N-Butylene Oxide 1,2 Consumption Value by Country (2019-2024) & (USD Million)

Table 82. South America N-Butylene Oxide 1,2 Consumption Value by Country (2025-2030) & (USD Million)

Table 83. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Type (2019-2024) & (Tons)

Table 84. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Type (2025-2030) & (Tons)

Table 85. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Application (2019-2024) & (Tons)

Table 86. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Application (2025-2030) & (Tons)

Table 87. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Country (2019-2024) & (Tons)

Table 88. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity by Country (2025-2030) & (Tons)

Table 89. Middle East & Africa N-Butylene Oxide 1,2 Consumption Value by Country

(2019-2024) & (USD Million)

Table 90. Middle East & Africa N-Butylene Oxide 1,2 Consumption Value by Country

(2025-2030) & (USD Million)

Table 91. N-Butylene Oxide 1,2 Raw Material

Table 92. Key Manufacturers of N-Butylene Oxide 1,2 Raw Materials

Table 93. N-Butylene Oxide 1,2 Typical Distributors

Table 94. N-Butylene Oxide 1,2 Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. N-Butylene Oxide 1,2 Picture

Figure 2. Global N-Butylene Oxide 1,2 Revenue by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global N-Butylene Oxide 1,2 Revenue Market Share by Type in 2023

Figure 4. Low Purity N-Butylene Oxide 1,2 Examples

Figure 5. High Purity N-Butylene Oxide 1,3 Examples

Figure 6. Global N-Butylene Oxide 1,2 Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global N-Butylene Oxide 1,2 Revenue Market Share by Application in 2023

Figure 8. Chemical Intermediate Examples

Figure 9. Stabilizer for Industrial Solvents Examples

Figure 10. Nonionic Surfactant Examples

Figure 11. Others Examples

Figure 12. Global N-Butylene Oxide 1,2 Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global N-Butylene Oxide 1,2 Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global N-Butylene Oxide 1,2 Sales Quantity (2019-2030) & (Tons)

Figure 15. Global N-Butylene Oxide 1,2 Price (2019-2030) & (USD/MT)

Figure 16. Global N-Butylene Oxide 1,2 Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global N-Butylene Oxide 1,2 Revenue Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of N-Butylene Oxide 1,2 by Manufacturer Sales (\$MM) and Market Share (%): 2023

Figure 19. Top 3 N-Butylene Oxide 1,2 Manufacturer (Revenue) Market Share in 2023

Figure 20. Top 6 N-Butylene Oxide 1,2 Manufacturer (Revenue) Market Share in 2023

Figure 21. Global N-Butylene Oxide 1,2 Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global N-Butylene Oxide 1,2 Consumption Value Market Share by Region (2019-2030)

Figure 23. North America N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 26. South America N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 28. Global N-Butylene Oxide 1,2 Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global N-Butylene Oxide 1,2 Consumption Value Market Share by Type (2019-2030)

Figure 30. Global N-Butylene Oxide 1,2 Average Price by Type (2019-2030) & (USD/MT)

Figure 31. Global N-Butylene Oxide 1,2 Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global N-Butylene Oxide 1,2 Revenue Market Share by Application (2019-2030)

Figure 33. Global N-Butylene Oxide 1,2 Average Price by Application (2019-2030) & (USD/MT)

Figure 34. North America N-Butylene Oxide 1,2 Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America N-Butylene Oxide 1,2 Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America N-Butylene Oxide 1,2 Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America N-Butylene Oxide 1,2 Consumption Value Market Share by Country (2019-2030)

Figure 38. United States N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 39. Canada N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 40. Mexico N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 41. Europe N-Butylene Oxide 1,2 Sales Quantity Market Share by Type (2019-2030)

Figure 42. Europe N-Butylene Oxide 1,2 Sales Quantity Market Share by Application (2019-2030)

Figure 43. Europe N-Butylene Oxide 1,2 Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe N-Butylene Oxide 1,2 Consumption Value Market Share by Country

(2019-2030)

Figure 45. Germany N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 46. France N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 47. United Kingdom N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 48. Russia N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 49. Italy N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 50. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific N-Butylene Oxide 1,2 Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific N-Butylene Oxide 1,2 Consumption Value Market Share by Region (2019-2030)

Figure 54. China N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 55. Japan N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 56. South Korea N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 57. India N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 58. Southeast Asia N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 59. Australia N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 60. South America N-Butylene Oxide 1,2 Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America N-Butylene Oxide 1,2 Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America N-Butylene Oxide 1,2 Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America N-Butylene Oxide 1,2 Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 65. Argentina N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD

Million)

Figure 66. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa N-Butylene Oxide 1,2 Sales Quantity Market Share by Country (2019-2030)

Figure 69. Middle East & Africa N-Butylene Oxide 1,2 Consumption Value Market Share by Country (2019-2030)

Figure 70. Turkey N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 71. Egypt N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 72. Saudi Arabia N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 73. South Africa N-Butylene Oxide 1,2 Consumption Value (2019-2030) & (USD Million)

Figure 74. N-Butylene Oxide 1,2 Market Drivers

Figure 75. N-Butylene Oxide 1,2 Market Restraints

Figure 76. N-Butylene Oxide 1,2 Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of N-Butylene Oxide 1,2 in 2023

Figure 79. Manufacturing Process Analysis of N-Butylene Oxide 1,2

Figure 80. N-Butylene Oxide 1,2 Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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