Ethylene Oxide Market Research Report - Forecast to 2023

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Description: Global Ethylene Oxide Market: Information by Product (Ethylene Glycol, Ethoxylates, Ethanolamines, Glycol Ethers, Polyethylene Glycol, Polyether Polyols, and Others), and Region (North America, Europe, Asia-Pacific, and Others)—Forecast till 2023

Market Overview

Ethylene oxide is a colorless, flammable gas or liquid, produced by catalytically reacting ethylene and oxygen using silver as a catalyst. It is mainly used for the production of ethylene glycol, ethoxylates, ethanolamines, and glycol ether among others. It is being widely used as a sterilant in medical devices and equipment and as a fumigant in spices. The product finds use in numerous applications which includes medical devices, cosmetics, solvents, detergents, antifreeze, textiles, and food & beverages.

The growth of the global ethylene oxide market is mainly driven by rising demand for ethylene glycol in numerous applications including PET resins, polyester fibers, and antifreeze for engines among others. PET resins are being widely used in packaging industry in packaged food and beverages due to convenience and improved shelf life of the products. Thus, expanding packaging industry with rising demand for packaged food and beverages is likely to drive the demand for PET resins, and hence, ethylene glycol, which is likely to propel the growth of the ethylene oxide market. Rising awareness among consumers regarding plastic wastage is likely to stimulate the demand for PET resins further.

Additionally, growing demand for detergents, household and industrial cleaners, and laundry softeners among others is likely to add to the growth of the ethylene oxide market at a healthy rate. Furthermore, on account of rapidly expanding healthcare industry on account of rising health awareness has resulted in increased spending on medical devices, which is likely to fuel the demand for ethylene oxide in the coming years.

The market players are emphasizing capacity expansion to meet the increasing demand for ethylene oxide in major end-use industries including surfactants, packaging, cosmetics & personal care, and food and beverages. For instance, in November 2018, Clariant proposed to expand ethylene oxide capacity at its plant in Gendorf, Germany. Also, in July 2018, BASF SE proposed to expand ethylene oxide capacity expansion at its verbund site in Antwerp, Belgium.

Global Ethylene Oxide Market Share, by Product, 2017 (%)
The market in Asia-Pacific accounted for the largest share of the ethylene oxide market in 2017 and is expected to continue its dominance during the forecast period. This growth can be attributed to the rapidly expanding industrial base and rising per capita income in developing nations such as China, India, and Thailand. Additionally, the growing food & beverage industry with the increasing demand for packaged beverages and food products from the young working population is expected to propel market growth.

North America is another prominent market for ethylene oxide due to the rising demand from major end-use industries such as pharmaceuticals, food & beverage, and cosmetics and personal care. Moreover, the growing cosmetics and personal care industry with a surge in demand for skin and hair care products is driving market growth in the region.

The European market is also expected to grow on account of the expanding packaging industry with the rising demand for packaged food and beverages. Additionally, the growing healthcare industry with increasing spending on healthcare coupled with the expanding geriatric population is bolstering market growth.

The Latin American market is expected to witness considerable growth due to the growing cosmetics and personal care industry especially in Brazil and Mexico on account of the escalating demand for cosmetics for men.

The market in the Middle East & Africa is likely to exhibit considerable growth during the review period on account of the rapidly growing industrial base in the region.

Segmentation

The global ethylene oxide market has been segmented by product, and region.

Based on product, the market has been segmented into ethylene glycol, ethoxylates, ethanolamines, glycol ethers, polyethylene glycol, polyether polyols, and others.

The ethylene glycol market has been studied with respect to five regions—North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa.

Key Players

Some of the key players in the global ethylene glycol market are Akzo Nobel N.V. (Netherlands), BASF SE (Germany), China Petrochemical Corporation (China), Clariant (Switzerland), DowDuPont (US), Exxon Mobil Corporation (US), Huntsman Corporation (US), INEOS (UK), LyondellBasell Industries Holdings B.V. (Netherlands), Royal Dutch Shell plc (Netherlands), SABIC (Saudi Arabia), and The Linde Group (US).

Intended Audience

- Ethylene oxide manufacturers
- Traders and distributors of ethylene oxide
- Research and development institutes
- Potential investors
- Raw material suppliers
- Nationalized laboratories
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