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Ethylene Amines Market Forecasts to 2030 – Global Analysis By Product Type (Ethylenediamine (EDA), Diethylene Triamine (DETA), Triethylene Tetraamine (TETA), Tetraethylene Pentamine (TEPA), Higher Ethylene Amines and Other Product Types), Form, Functionality, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Ethylene Amines Market is accounted for $2.4 billion in 2024 and is expected to reach $3.3 billion by 2030 growing at a CAGR of 5.7% during the forecast period. Ethylene amines are a group of organic compounds derived from ethylene with one or more amine (NH2) groups attached to the carbon chain. These compounds are used in a variety of industrial applications, including as intermediates in the production of surfactants, rubber chemicals, and water treatment agents. They can also be employed in the synthesis of polymers, coatings, and agrochemicals. Ethylene amines are versatile, reactive chemicals that play a crucial role in many chemical processes due to their unique chemical structure.

According to the Department for Promotion of Industry and Internal Trade, in the fiscal year 2021, the trade value of India's paint sector exceeded INR 46 billion (USD 560 million). In the country, the value of exported paint and allied items was around INR 17.4 billion Indian, compared to over INR 29 billion (USD 350 million) in import value.

Market Dynamics:

Driver:

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Accelerating demand for pesticides from developing countries

The increasing agricultural activities in developing countries are driving the demand for pesticides, significantly influencing the market. As these nations strive to enhance crop yield and protect against pests, the need for effective pest control solutions grows. Ethylene amines, used in various pesticide formulations, are becoming essential to meet this demand. This trend is expected to continue, as agricultural development in these regions accelerates, further boosting the market.

Restraint:

Hazardous health effects due to direct exposure

Direct exposure to ethylene amines poses significant health risks, including skin irritation, respiratory issues, and potential long-term effects such as organ damage or cancer. These hazardous health impacts can hinder market growth, as regulatory agencies impose stricter safety standards and manufacturers face higher compliance costs. Additionally, growing awareness of the dangers associated with exposure may lead to reduced demand and tighter regulations, affecting the market.

Opportunity:

Developing consumer awareness concerning cleanliness and hygiene

Rising consumer awareness about cleanliness and hygiene is boosting the demand for ethylene amines in cleaning and disinfectant products. Ethylene amines, known for their surfactant and antimicrobial properties, are increasingly used in formulations for household and industrial cleaning. As consumers prioritize health and sanitation, the demand for effective cleaning solutions grows, driving the market for ethylene amines. This heightened awareness supports the ongoing expansion of the market across various sectors.

Threat:

Raw material cost variability

Raw material cost variability poses a significant challenge in the market, as fluctuations in prices for key inputs like ammonia and ethylene can disrupt production costs. This unpredictability affects manufacturers' profit margins and pricing strategies, potentially

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leading to higher costs for end consumers. Inconsistent raw material prices can also hinder long-term planning and investment, creating instability in the market and impacting overall growth and competitiveness.

Covid-19 Impact:

The COVID-19 pandemic disrupted the market by causing supply chain disruptions, factory shutdowns, and reduced industrial demand. With global economic slowdowns, several sectors that rely on ethylene amines, such as automotive and construction, faced decreased production and delays. However, the surge in demand for disinfectants and sanitizers during the pandemic somewhat offset these challenges, driving growth in the market's chemical and cleaning sectors.

The ethylenediamine (EDA) segment is expected to be the largest during the forecast period

The ethylenediamine (EDA) segment is expected to account for the largest market share during the forecast period, widely used in the production of chemicals. Its versatility as a building block in various industrial applications drives substantial demand. The growth of industries like agriculture, pharmaceuticals, and automotive, along with the increasing need for effective chemical formulations, continues to fuel EDA's market expansion, making it a critical component in the ethylene amines sector.

The chemicals segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the chemicals segment is predicted to witness the highest growth rate. These chemicals are essential in producing detergents, pharmaceuticals, agrochemicals, and coatings, as well as in the manufacture of polymers and plastics. The increasing demand for specialty chemicals across diverse sectors, including agriculture and manufacturing, is driving growth in the ethylene amines market, ensuring its continued relevance and expansion.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share driven by demand in industries such as agriculture, automotive, and construction. The region's advanced manufacturing capabilities and growing agricultural sector contribute to the increasing use of ethylene amines in applications like pesticides,

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coatings, and corrosion inhibitors. Additionally, strict environmental regulations and a focus on sustainability are pushing manufacturers to innovate, further supporting the market's expansion.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. In the region, countries like China, India, Japan, and South Korea are major consumers, with China leading the market due to its large-scale industrial activities and growing chemical manufacturing sector. The rapid urbanization and industrialization in India are also contributing to the expanding demand for the market. Moreover, the automotive and construction industries in the region are using Ethylene Amines for manufacturing polyurethane foams and resins.

Key players in the market

Some of the key players in Ethylene Amines market include Sumitomo Chemical Company, Limited, Air Products and Chemicals, Inc., LyondellBasell Industries, Olin Corporation, BASF SE, Dow Chemical Company, Huntsman Corporation, Lanxess AG, Mitsubishi Gas Chemical Company, Inc., Clariant International Ltd., Tosoh Corporation, Sinopec Limited, Eastman Chemical Company, Albemarle Corporation and SABIC.

Key Developments:

In August 2024, Sadara Chemical, a joint venture between Saudi Aramco and Dow Chemical, posted a 34% revenue gain in the second quarter compared with a year earlier, thanks to a 26% increase in volumes sold, Sadara Basic Services.

In May 2024, INEOS Oxide and LyondellBasell (LYB) have completed the sale of LYB’s Ethylene Oxide & Derivatives (EO&D) business and associated production facilities located in Bayport, Texas to INEOS.

Product Types Covered:

- Ethylenediamine (EDA)
- Diethylene Triamine (DETA)
- Triethylene Tetraamine (TETA)

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Tetraethylene Pentamine (TEPA)

Higher Ethylene Amines

Other Product Types

Forms Covered:

Solid

Liquid

Functionalities Covered:

Crosslinking Agents

Chelating Agents

Intermediate Chemicals

Corrosion Inhibitors

Catalysts

Applications Covered:

Agrochemicals

Detergents

Water Treatment

Polymer and Resin Production

Chemical Manufacturing

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- Personal Care
- Other Applications

End Users Covered:

- Agriculture
- Chemicals
- Automotive
- Construction
- Pharmaceuticals
- Textiles
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK

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- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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