

Methyl Chloride Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Form (Gas, Liquid), By Application (Paint Remover, Pharmaceuticals, Chemical Processing, Foam Manufacturing, Metal Cleaning, Others), By Region and Competition, 2019-2029F

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Report description:

Global Methyl Chloride Market was valued at USD 2.24 Billion in 2023 and is expected to reach USD 2.81 Billion by 2029 with a CAGR of 4.08% during the forecast period. Methyl chloride, also known as chloromethane, is a colorless, flammable gas that serves as a vital building block in the synthesis of numerous chemical products.

Methyl chloride is extensively used as a soil fumigant to control pests, weeds, and pathogens in agriculture. Its effectiveness in improving crop yields has made it a preferred choice among farmers. As global food production needs increase to meet the demands of a growing population, the agricultural sector is likely to continue driving the demand for methyl chloride.

The regulatory environment surrounding the methyl chloride market is becoming increasingly stringent, driven by concerns over environmental and health impacts. Methyl chloride is classified as a hazardous air pollutant and poses risks to human health and the environment. Governments are implementing regulations to limit its use, especially in agricultural applications. This regulatory scrutiny is prompting manufacturers to invest in safer alternatives and explore more sustainable production methods.

The environmental impact of methyl chloride poses significant challenges to the market. Its classification as a volatile organic compound (VOC) has raised concerns over its contribution to air pollution and ozone depletion. These environmental challenges are prompting regulators to enforce stricter limits on its use, particularly in agricultural fumigation.

Key Market Drivers

Growing Demand of Methyl Chloride in Pharmaceutical Industry

Methyl chloride is primarily utilized as a solvent and as an intermediate in the synthesis of active pharmaceutical ingredients (APIs). Its ability to dissolve a wide range of organic compounds makes it an essential component in various drug formulations. The compound plays a crucial role in the production of several medications, including those used for treating respiratory diseases,

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neurological disorders, and cancer.

Moreover, methyl chloride is integral to the synthesis of important pharmaceuticals, such as antifungal agents, antiviral drugs, and analgesics. The growing prevalence of chronic diseases and the need for effective treatments are driving pharmaceutical companies to enhance their production capabilities, thereby increasing the demand for methyl chloride.

The pharmaceutical industry is witnessing an unprecedented surge in research and development (R&D) activities, aimed at discovering new and more effective medications. This focus on innovation is a key driver of the growing demand for methyl chloride, as it is often used in the early stages of drug development. Methyl chloride serves as an intermediate in the synthesis of complex molecules, facilitating the creation of novel compounds that can lead to breakthrough therapies.

The COVID-19 pandemic has further accelerated this trend, prompting pharmaceutical companies to invest heavily in R&D for vaccines and treatments. As a result, the need for high-quality methyl chloride is expected to rise in tandem with the expansion of drug development pipelines and the introduction of new pharmaceuticals into the market.

In response to the growing demand from the pharmaceutical sector, manufacturers are expanding their production capacities for methyl chloride. Investments in advanced manufacturing technologies and processes are being made to improve efficiency and ensure the consistent quality of methyl chloride. As production capabilities increase, companies can better meet the rising demand from pharmaceutical clients, enhancing their competitiveness in the global market.

Moreover, the development of sustainable production methods, including the use of renewable feedstocks and green chemistry principles, is gaining traction among methyl chloride producers. This shift towards sustainability aligns with the pharmaceutical industry's focus on reducing its environmental impact, creating a favorable environment for the growth of the methyl chloride market.

Growing Demand of Methyl Chloride in Paint Industry

Methyl chloride serves several important functions in the paint industry. It is commonly used as a solvent for various resins and pigments, enabling the creation of high-quality paints and coatings. Its excellent solvency properties make it suitable for use in both water-based and solvent-based formulations. Additionally, methyl chloride is employed as an intermediate in producing various specialty chemicals, including isocyanates and chlorinated compounds, which are essential for formulating advanced coatings. As the demand for innovative and high-performance paints increases, methyl chloride's role in enhancing product quality and performance becomes increasingly critical.

The growing global construction and renovation activities, driven by urbanization and rising disposable incomes, are significant factors contributing to the increased demand for paints and coatings. Governments and private sectors alike are investing heavily in infrastructure development, residential construction, and commercial projects, leading to a higher demand for quality paints. Methyl chloride's ability to improve the durability, gloss, and adhesion of paint products makes it an essential ingredient, further fueling its demand in the paint industry.

Consumer preferences are evolving towards more aesthetically appealing and functional paint products. The demand for innovative coatings, such as eco-friendly and high-performance paints, is on the rise. Methyl chloride is instrumental in the development of these advanced formulations, providing the necessary properties to meet consumer expectations. Manufacturers are increasingly focused on creating paints that are not only visually attractive but also environmentally friendly and durable. The push for innovation in the paint industry is expected to enhance the demand for methyl chloride, as it serves as a key component in the formulation of these modern coatings.

While the growth of the methyl chloride market is promising, it is essential to acknowledge the regulatory landscape surrounding its use. Environmental regulations concerning the production and use of chlorinated solvents are becoming stricter, prompting manufacturers to seek sustainable alternatives. However, methyl chloride remains a viable option for many applications due to its effectiveness and performance characteristics. The paint industry is gradually shifting towards greener formulations, which may lead to the development of methyl chloride derivatives or modified processes that align with sustainability goals while maintaining performance.

Key Market Challenges

Fluctuation in Price of Raw Materials

Methyl chloride, also known as chloromethane, is a colorless gas with a sweet odor. It is used primarily as a solvent and intermediate in the production of chemicals such as silicones, pharmaceuticals, and agricultural products.

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The global supply chain for raw materials required to produce methyl chloride has faced significant disruptions, especially during the COVID-19 pandemic. This has resulted in delays and increased costs for sourcing essential chemicals such as methanol and chlorine. Supply chain disruptions lead to uncertainty in pricing, making it challenging for manufacturers to plan and manage their operations effectively.

The global economy significantly influences raw material prices. Economic downturns or fluctuations can lead to reduced demand for methyl chloride and its raw materials, causing prices to drop. Conversely, economic recoveries or booms can increase demand, driving prices up. Manufacturers must navigate these economic cycles to maintain profitability and manage costs.

Increasing environmental regulations and safety standards are affecting the production and use of methyl chloride and its raw materials. Stricter regulations can lead to additional compliance costs and investment in cleaner production technologies, which may result in price increases for raw materials. Manufacturers must adapt to these regulatory changes while balancing cost implications.

Geopolitical tensions and trade disputes can impact the availability and prices of raw materials used in the production of methyl chloride. Tariffs, sanctions, and other trade barriers can increase the cost of imports and limit access to essential chemicals, exacerbating price fluctuations.

Key Market Trends

Surge in Technological Advancements

One of the most significant trends in the methyl chloride market is the adoption of advanced production techniques that enhance efficiency and reduce costs. Traditional methods of methyl chloride production often involve chlorination of methane or other hydrocarbons. However, recent technological advancements have introduced alternative methods, such as the use of innovative catalysts and reaction conditions that minimize by-products and increase yield.

Dow Corning is advancing a process to convert methane into methyl chloride through oxyhydrochlorination (OHC) chemistry, with collaborative support from the Gas Research Institute and the Department of Energy's Federal Energy Technology Center. As the largest producer of methyl chloride globally, Dow Corning utilizes this compound as an intermediate in silicone material production. Additionally, methyl chloride is employed in the synthesis of higher hydrocarbons, methyl cellulose, quaternary ammonium salts, and herbicides. The primary goal of this initiative is to demonstrate and establish a more cost-effective route to methyl chloride production by utilizing methane as a raw material instead of methanol.

For instance, the development of new catalytic processes allows for the more efficient conversion of raw materials into methyl chloride, leading to reduced energy consumption and lower operational costs. As manufacturers adopt these technologies, they can produce higher-quality methyl chloride while meeting increasing demand from various end-use industries.

The integration of automation and process optimization technologies is another trend impacting the methyl chloride market. Manufacturers are increasingly utilizing advanced control systems, sensors, and data analytics to monitor production processes in real time. This allows for greater precision in managing reaction conditions and enhancing overall efficiency.

By automating various stages of production, companies can reduce human error, improve safety, and optimize resource allocation. The result is a more streamlined production process that not only boosts output but also minimizes waste and environmental impact. As these technologies become more prevalent, they are expected to play a crucial role in meeting the rising global demand for methyl chloride.

According to a report published by Nouryon in 2019, the company has expanded its chloromethanes production in Frankfurt. This new project will enhance the annual production capacity of methyl chloride, a key chloromethane, by over 30%. Methyl chloride is utilized in the manufacturing of a range of products, including construction materials, silicones, surfactants, and pharmaceuticals. In addition to investing in increased capacity, Nouryon has also implemented significant upgrades to the facility, which will enhance overall supply reliability for its customers and support their growth initiatives.

Segmental Insights

Form Insights

Based on Form, Gas have emerged as the fastest growing segment in the Global Methyl Chloride Market in 2023. Methyl chloride, in its gaseous form, is extensively utilized across various industries, including chemicals, pharmaceuticals, and agriculture. It serves as a vital solvent and reactant in the production of silanes, silicones, and other organosilicon compounds. The growing demand for these products drives the need for gaseous methyl chloride, as it offers superior efficiency in manufacturing processes

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compared to its liquid counterpart.

As industries increasingly focus on sustainability and environmental compliance, the gaseous form of methyl chloride has gained favor due to its lower environmental impact during production and use. Gaseous methyl chloride can be more easily managed in terms of emissions and waste disposal, aligning with global efforts to reduce carbon footprints and adhere to stricter environmental regulations.

The gas segment often presents a more economically viable option for manufacturers. Gaseous methyl chloride can be produced and transported more cost-effectively than liquid methyl chloride, which requires more complex storage and handling procedures. This cost efficiency is particularly important for manufacturers looking to optimize production processes and improve profit margins.

Application Insights

Based on Application, Chemical Processing have emerged as the fastest growing segment in the Global Methyl Chloride Market during the forecast period. Methyl chloride's versatility is one of its most compelling attributes, making it a preferred choice in chemical processing. It serves as a solvent, an intermediate in chemical synthesis, and a key ingredient in producing numerous compounds. Its low boiling point, excellent solubility, and ability to dissolve a wide range of organic materials enhance its utility across various applications, including pharmaceuticals, agrochemicals, and specialty chemicals.

As industries increasingly seek efficient and effective solutions for their chemical processes, the demand for methyl chloride continues to grow. Its application in producing methanol, chloromethane, and other critical chemical compounds further solidifies its role as a vital component in the chemical processing landscape.

The rise of specialty chemicals is a significant driver of the methyl chloride market within the chemical processing segment. Specialty chemicals are crucial in manufacturing high-performance products used in various sectors, such as automotive, electronics, and healthcare. Methyl chloride is essential in producing many specialty chemicals, including adhesives, coatings, and surfactants.

As the demand for specialty chemicals continues to expand due to growing end-user industries, the need for methyl chloride as a key ingredient is also increasing. The ability to tailor chemical processes to meet specific performance requirements has led to a surge in innovation, further boosting the demand for methyl chloride in specialty chemical production.

Regional Insights

Based on Region, Asia Pacific have emerged as the dominating region in the Global Methyl Chloride Market in 2023. The Asia Pacific region, particularly countries like China, India, and Japan, is experiencing unprecedented industrial growth. The region's burgeoning manufacturing sector, encompassing industries such as chemicals, pharmaceuticals, and paints, significantly drives the demand for methyl chloride. As these industries expand, the need for solvents and intermediates, such as methyl chloride, increases, further solidifying the region's position in the global market.

The increasing demand for paints and coatings, fueled by rising construction activities and urbanization, has a substantial impact on the methyl chloride market. The Asia Pacific region is witnessing significant growth in infrastructure development, residential projects, and industrial construction. Methyl chloride is extensively used in the production of high-quality paints and coatings, making its demand crucial in this thriving sector. As the construction industry continues to flourish, so does the need for methyl chloride, reinforcing the region's market dominance.

The agricultural sector in Asia Pacific is another significant driver of methyl chloride demand. Methyl chloride is utilized as a methylating agent in the production of pesticides and herbicides, which are essential for enhancing agricultural productivity. As countries in the region strive to improve food security and increase crop yields, the demand for agrochemicals, and consequently for methyl chloride, is expected to rise, further strengthening the market position in Asia-Pacific.

Key Market Players

□□Nouryon Chemicals Holding B.V.

□□Alleima AB

□□Balchem Corp.

□□Dragerwerk AG & Co. KGaA

□□KEM ONE SAS

□□Linde Gas GmbH

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☐☐Meghmani Finechem Limited

☐☐Merck KGaA

☐☐Shin-Etsu Chemical Co., Ltd.

☐☐Thermo Fisher Scientific Inc.

Report Scope

In this report, the Global Methyl Chloride Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

☐☐Methyl Chloride Market, By Form:

o Gas

o Liquid

☐☐Methyl Chloride Market, By Application:

o Paint Remover

o Pharmaceuticals

o Chemical Processing

o Foam Manufacturing

o Metal Cleaning

o Others

☐☐Methyl Chloride Market, By Region:

o North America

☐ United States

☐ Canada

☐ Mexico

o Europe

☐ France

☐ United Kingdom

☐ Italy

☐ Germany

☐ Spain

o Asia Pacific

☐ China

☐ India

☐ Japan

☐ Australia

☐ South Korea

o South America

☐ Brazil

☐ Argentina

☐ Colombia

o Middle East & Africa

☐ South Africa

☐ Saudi Arabia

☐ UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Methyl Chloride Market.

Available Customizations:

Global Methyl Chloride Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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Company Information

☐ Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, and Trends
4. Impact of COVID-19 on Global Methyl Chloride Market
5. Global Methyl Chloride Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value & Volume
 - 5.2. Market Share & Forecast
 - 5.2.1. By Form (Gas, Liquid)
 - 5.2.2. By Application (Paint Remover, Pharmaceuticals, Chemical Processing, Foam Manufacturing, Metal Cleaning, Others)
 - 5.2.3. By Region
 - 5.2.4. By Company (2023)
 - 5.3. Market Map
6. North America Methyl Chloride Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
 - 6.2. Market Share & Forecast
 - 6.2.1. By Form
 - 6.2.2. By Application
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Methyl Chloride Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value & Volume
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Form

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- 6.3.1.2.2. By Application
- 6.3.2. Mexico Methyl Chloride Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value & Volume
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Form
 - 6.3.2.2.2. By Application
- 6.3.3. Canada Methyl Chloride Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value & Volume
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Form
 - 6.3.3.2.2. By Application
- 7. Europe Methyl Chloride Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value & Volume
 - 7.2. Market Share & Forecast
 - 7.2.1. By Form
 - 7.2.2. By Application
 - 7.2.3. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. France Methyl Chloride Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value & Volume
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Form
 - 7.3.1.2.2. By Application
 - 7.3.2. Germany Methyl Chloride Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value & Volume
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Form
 - 7.3.2.2.2. By Application
 - 7.3.3. United Kingdom Methyl Chloride Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value & Volume
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Form
 - 7.3.3.2.2. By Application
 - 7.3.4. Italy Methyl Chloride Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value & Volume
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Form
 - 7.3.4.2.2. By Application
 - 7.3.5. Spain Methyl Chloride Market Outlook
 - 7.3.5.1. Market Size & Forecast

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- 7.3.5.1.1. By Value & Volume
- 7.3.5.2. Market Share & Forecast
- 7.3.5.2.1. By Form
- 7.3.5.2.2. By Application
- 8. Asia Pacific Methyl Chloride Market Outlook
- 8.1. Market Size & Forecast
- 8.1.1. By Value & Volume
- 8.2. Market Share & Forecast
- 8.2.1. By Form
- 8.2.2. By Application
- 8.2.3. By Country
- 8.3. Asia Pacific: Country Analysis
- 8.3.1. China Methyl Chloride Market Outlook
- 8.3.1.1. Market Size & Forecast
- 8.3.1.1.1. By Value & Volume
- 8.3.1.2. Market Share & Forecast
- 8.3.1.2.1. By Form
- 8.3.1.2.2. By Application
- 8.3.2. India Methyl Chloride Market Outlook
- 8.3.2.1. Market Size & Forecast
- 8.3.2.1.1. By Value & Volume
- 8.3.2.2. Market Share & Forecast
- 8.3.2.2.1. By Form
- 8.3.2.2.2. By Application
- 8.3.3. South Korea Methyl Chloride Market Outlook
- 8.3.3.1. Market Size & Forecast
- 8.3.3.1.1. By Value & Volume
- 8.3.3.2. Market Share & Forecast
- 8.3.3.2.1. By Form
- 8.3.3.2.2. By Application
- 8.3.4. Japan Methyl Chloride Market Outlook
- 8.3.4.1. Market Size & Forecast
- 8.3.4.1.1. By Value & Volume
- 8.3.4.2. Market Share & Forecast
- 8.3.4.2.1. By Form
- 8.3.4.2.2. By Application
- 8.3.5. Australia Methyl Chloride Market Outlook
- 8.3.5.1. Market Size & Forecast
- 8.3.5.1.1. By Value & Volume
- 8.3.5.2. Market Share & Forecast
- 8.3.5.2.1. By Form
- 8.3.5.2.2. By Application
- 9. South America Methyl Chloride Market Outlook
- 9.1. Market Size & Forecast
- 9.1.1. By Value & Volume
- 9.2. Market Share & Forecast
- 9.2.1. By Form

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- 9.2.2. By Application
- 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Methyl Chloride Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value & Volume
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Form
 - 9.3.1.2.2. By Application
 - 9.3.2. Argentina Methyl Chloride Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value & Volume
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Form
 - 9.3.2.2.2. By Application
 - 9.3.3. Colombia Methyl Chloride Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value & Volume
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Form
 - 9.3.3.2.2. By Application
- 10. Middle East and Africa Methyl Chloride Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
 - 10.2. Market Share & Forecast
 - 10.2.1. By Form
 - 10.2.2. By Application
 - 10.2.3. By Country
 - 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Methyl Chloride Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value & Volume
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Form
 - 10.3.1.2.2. By Application
 - 10.3.2. Saudi Arabia Methyl Chloride Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value & Volume
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Form
 - 10.3.2.2.2. By Application
 - 10.3.3. UAE Methyl Chloride Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value & Volume
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Form
 - 10.3.3.2.2. By Application

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11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
13. Global Methyl Chloride Market: SWOT Analysis
14. Porters Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
15. Competitive Landscape
 - 15.1. Nouryon Chemicals Holding B.V.
 - 15.1.1. Business Overview
 - 15.1.2. Company Snapshot
 - 15.1.3. Products & Services
 - 15.1.4. Financials (As Reported)
 - 15.1.5. Recent Developments
 - 15.1.6. Key Personnel Details
 - 15.1.7. SWOT Analysis
 - 15.2. Alleima AB
 - 15.3. Balchem Corp.
 - 15.4. Dragerwerk AG & Co. KGaA
 - 15.5. KEM ONE SAS
 - 15.6. Linde Gas GmbH
 - 15.7. Meghmani Finechem Limited
 - 15.8. Merck KGaA
 - 15.9. Shin-Etsu Chemical Co., Ltd.
 - 15.10. Thermo Fisher Scientific Inc.
16. Strategic Recommendations
17. About Us & Disclaimer

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