

# **Sodium Tetraborate Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By End-Use (Detergent, Personal Care & Cosmetic, Agrochemical, Pharmaceutical, and Others), By Sales Channel (Direct Sale, Indirect Sale), By Region and Competition, 2020-2035F**

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## **Abstracts**

Global Sodium Tetraborate Market was valued at 2009.15 Thousand Tonnes in 2024 and is expected to reach 2667.65 Thousand Tonnes by 2035 with a CAGR of 2.65% during the forecast period.

The Global Sodium Tetraborate Market is experiencing steady growth, driven by its diverse industrial applications across multiple sectors, including glass manufacturing, detergents, ceramics, pharmaceuticals, and agriculture. Sodium tetraborate, commonly known as borax, is a crucial compound used in the production of fiberglass, heat-resistant glass, and ceramic glazes due to its ability to enhance durability and thermal stability. The rising demand for high-performance glass products, particularly in the automotive and construction industries, is a key growth driver. Additionally, sodium tetraborate serves as a critical ingredient in detergents and cleaning products due to its excellent buffering, emulsifying, and water-softening properties, further fueling market expansion. The pharmaceutical industry also utilizes sodium tetraborate in antifungal and antimicrobial formulations, contributing to its growing demand. Moreover, in agriculture, borax plays an essential role as a micronutrient fertilizer, addressing boron deficiencies in crops and improving yield quality.

Geographically, Asia-Pacific dominates the market, with China, India, and Japan leading consumption, primarily due to their expanding glass and ceramics industries.

North America and Europe also hold significant market shares, driven by stringent environmental regulations promoting eco-friendly and sustainable chemical alternatives. However, the market faces challenges, such as fluctuating raw material prices and regulatory restrictions on boron-based compounds due to potential environmental and health concerns. In September 2023, a sensor array system using an electronic nose and artificial neural networks (ANN) was developed to detect borax in meatballs. The study analyzed odor categorization using gas sensor arrays on samples containing borax concentrations of 0.05% to 0.25% and a control group without borax. The system employed six TGS gas sensors with specific detection and purging intervals. Data processing utilized principal component analysis (PCA) and ANN for feature extraction and classification. Two models were developed: one using PCA, achieving a total variance of 90.33%, and another using the multilayer perceptron ANN (ANN-MLP), which achieved 95% accuracy. This reveals the sensor array system, coupled with machine learning techniques, demonstrates high potential for accurately detecting borax in meatballs, with the ANN-MLP model offering superior accuracy for practical applications. Leading players in the industry focus on strategic expansions, acquisitions, and technological advancements to enhance production efficiency and develop sustainable alternatives. With increasing industrial applications and continuous innovation, the Global Sodium Tetraborate Market is expected to grow steadily in the coming years, supported by rising demand across multiple end-use industries and advancements in sustainable product formulations.

## Key Market Drivers

### Growing Demand for Borosilicate Glass in Construction and Automotive Industries

The increasing reliance on borosilicate glass across various industries is a significant driver of the Global Sodium Tetraborate Market. Borosilicate glass, recognized for its exceptional durability, thermal resistance, and chemical stability, is extensively used in construction and automotive applications. Sodium tetraborate plays a crucial role in its production by enhancing glass strength and reducing thermal expansion, making it highly suitable for environments exposed to extreme temperatures and mechanical stress.

The construction sector, particularly in emerging economies, is witnessing rapid urbanization and infrastructure expansion, leading to heightened demand for energy-efficient and durable building materials. Borosilicate glass is increasingly used in commercial and residential buildings for windows, facades, and interior applications, benefiting from its ability to withstand harsh weather conditions while offering superior

insulation properties. This trend is further fueled by growing government regulations promoting energy-efficient construction materials.

Similarly, the automotive industry is integrating borosilicate glass in vehicle manufacturing, particularly in windshields, sunroofs, and high-temperature-resistant engine components. The ability of borosilicate glass to withstand sudden temperature fluctuations and mechanical stress makes it ideal for modern vehicles, including electric and autonomous cars that require lightweight, high-performance materials. Additionally, the increasing adoption of smart glass technology in architecture and automobiles, which adjusts transparency based on environmental conditions, is further boosting the demand for sodium tetraborate.

As industries increasingly prioritize energy efficiency, durability, and innovation, the demand for borosilicate glass and, consequently, sodium tetraborate is expected to grow. Technological advancements in glass manufacturing processes are also contributing to improved production efficiency and cost-effectiveness, making borosilicate glass more accessible across industries. With the continued expansion of construction and automotive markets, the Global Sodium Tetraborate Market is set to experience sustained growth in the coming years.

### Expanding Role of Sodium Tetraborate in Detergent and Cleaning Products

Sodium tetraborate's extensive use in detergents and cleaning products is another crucial driver of market growth. Its emulsifying, buffering, and water-softening properties make it an essential ingredient in various cleaning formulations. Borax acts as a pH stabilizer, enhancing the effectiveness of cleaning agents by improving their ability to dissolve grease, remove stains, and prevent mineral buildup in hard water. These qualities make it particularly valuable in laundry detergents, dishwashing liquids, and industrial cleaning solutions.

With rapid urbanization and an increasing global population, the demand for household and industrial cleaning solutions has surged. Additionally, heightened consumer awareness regarding hygiene and sanitation, especially in the wake of the COVID-19 pandemic, has further accelerated demand for high-performance detergents. This trend has led to increased consumption of sodium tetraborate in both residential and commercial cleaning sectors.

One notable trend in the detergent market is the shift towards eco-friendly and phosphate-free formulations. As environmental regulations become stricter,

manufacturers are seeking alternative ingredients that provide similar cleaning efficacy without harming aquatic ecosystems. Sodium tetraborate has emerged as a preferred substitute due to its non-toxic, biodegradable, and environmentally friendly properties. This shift has particularly influenced product innovation in the development of green and plant-based detergents, further bolstering demand for sodium tetraborate.

Moreover, the increasing popularity of liquid and concentrated detergents has created additional opportunities for borax-based stabilizers. These formulations require consistent pH balance and active ingredient stabilization, both of which are facilitated by sodium tetraborate. With detergent manufacturers continuously innovating to meet consumer demands for sustainable and effective cleaning products, the Global Sodium Tetraborate Market is poised for long-term growth in this segment.

### Growing Adoption in Pharmaceutical and Personal Care Products

The pharmaceutical and personal care industries have significantly increased their use of sodium tetraborate due to its antifungal, antibacterial, and preservative properties. Borax is widely utilized in antiseptic formulations, mouthwashes, and ophthalmic solutions to prevent microbial growth and enhance the shelf stability of pharmaceutical products. Its ability to maintain pH balance and act as a mild disinfectant makes it an essential ingredient in medicated powders, creams, and ointments. According to data from IBEF, India has historically been a dominant player in the pharmaceutical sector, benefiting from a low manufacturing cost (30%–35% lower than in the US and Europe), cost-effective research and development (approximately 87% less than in developed markets), and an abundant supply of skilled labor at competitive wages. In the personal care sector, sodium tetraborate is commonly found in cosmetics, lotions, creams, and soaps, where it serves as an emulsifier and preservative. This helps improve the texture, consistency, and longevity of products, making them more appealing to consumers. As the demand for natural and organic skincare products grows, manufacturers are incorporating borax as a safer alternative to synthetic preservatives, further driving its demand.

The increasing global focus on personal hygiene and health consciousness, especially in the post-pandemic era, has led to higher consumption of medicated skincare and hygiene products. Consumers are actively seeking chemical-free, hypoallergenic, and natural formulations, where sodium tetraborate fits as a gentle yet effective preservative. Additionally, borax is gaining traction in oral care products, particularly in fluoride-free toothpaste and mouth rinses, as a natural antibacterial agent.

With continued advancements in pharmaceutical formulations and rising demand for organic personal care solutions, sodium tetraborate's role in these industries will expand further. As research continues to highlight its multi-functional benefits, the Global Sodium Tetraborate Market is expected to witness steady growth in this segment.

## Key Market Challenges

### Volatility in Raw Material Prices and Supply Chain Disruptions

The Global Sodium Tetraborate Market is highly dependent on the availability and pricing of boron-based raw materials, particularly boron ores such as tincal and kernite. These materials are primarily sourced from a limited number of mining regions, including Turkey, the United States, and China. Any fluctuations in the supply of boron ores due to geopolitical tensions, trade restrictions, or mining regulations directly impact the production costs of sodium tetraborate. Additionally, mining activities are subject to environmental regulations that can limit extraction, thereby causing supply constraints. As a result, sodium tetraborate manufacturers frequently encounter price volatility, making it difficult to maintain stable profit margins. Another key factor contributing to supply chain disruptions is transportation and logistics constraints, especially for exports and imports between major production and consumption hubs. Shipping delays, port congestion, and increased freight costs exacerbate the problem, leading to uncertainties in the supply chain. Moreover, natural disasters and extreme weather events can disrupt mining and transportation activities, further limiting raw material availability. In recent years, the COVID-19 pandemic demonstrated the vulnerability of global supply chains, with reduced mining operations and logistical bottlenecks causing shortages and price surges. Such unpredictable market conditions force companies to seek alternative sourcing strategies, negotiate long-term contracts with suppliers, or invest in vertical integration to reduce dependence on external supply chains. However, these measures require substantial financial investment and long-term strategic planning, which can be challenging for small- and medium-sized enterprises operating in the sodium tetraborate market. Without a stable and cost-effective supply of raw materials, manufacturers struggle to meet growing demand from industries such as detergents, glass manufacturing, and agriculture, ultimately impacting the overall growth of the market.

### Increasing Competition from Substitute Products

One of the major challenges confronting the Global Sodium Tetraborate Market is the

growing availability and adoption of substitute products across various industries. As environmental concerns and regulatory restrictions increase, companies are actively seeking alternative compounds that offer similar properties without the associated health and environmental risks. For example, in the detergent and cleaning industry, phosphate-based additives and biodegradable enzyme formulations are replacing sodium tetraborate due to their superior performance and reduced environmental impact. Similarly, in the glass and ceramics industry, manufacturers are experimenting with alternative fluxing agents that provide comparable thermal stability and durability while minimizing regulatory compliance issues. Additionally, advancements in nanotechnology and specialty chemicals have led to the development of high-performance compounds that can serve as substitutes for sodium tetraborate in applications such as adhesives, lubricants, and flame retardants. These alternatives often provide enhanced efficiency and lower toxicity levels, making them attractive choices for end-users. Moreover, growing investments in sustainable agriculture have driven research into alternative micronutrients and fertilizers that reduce boron dependency, further impacting demand for sodium tetraborate. The increasing adoption of substitutes presents a dual challenge for sodium tetraborate manufacturers—on one hand, they must focus on product innovation to differentiate their offerings, while on the other, they must justify the continued use of sodium tetraborate in applications where alternatives are gaining traction. Failure to do so can result in a loss of market share to competitors offering more environmentally friendly or cost-effective solutions. To mitigate this challenge, companies must invest in research and development to enhance the efficiency, safety, and sustainability of sodium tetraborate-based products. Additionally, strategic collaborations with end-user industries can help develop customized formulations that meet specific performance requirements while addressing regulatory concerns.

## Key Market Trends

### Rising Use of Sodium Tetraborate in Agriculture for Soil Enrichment

Sodium tetraborate is gaining traction in the agricultural sector due to its essential role in soil enrichment and crop protection. As a boron-based micronutrient, it plays a crucial role in improving plant health by enhancing cell wall formation, root development, and nutrient absorption. Boron deficiency in soil leads to poor plant growth, decreased crop yields, and weakened resistance to diseases. To address this, farmers increasingly rely on borax-based fertilizers to restore soil fertility and optimize agricultural output. The 2022 Agricultural Chemical Use Survey, conducted by NASS, gathered data on the application of fertilizers, pesticides, and pest management practices across 22

vegetable crops. This survey targeted producers in 17 states, with a particular emphasis on those states that are significant producers of the surveyed crops. Snap bean growers applied herbicides to 78% of their planted acres, surpassing the use of insecticides and fungicides, which were applied to 52% and 41% of planted acres, respectively. The global demand for high-yield crops has surged due to population growth, placing greater pressure on farmers to enhance productivity. Borax-based soil amendments help improve pollination, seed production, and fruit development, making it a valuable component in modern agricultural practices. This is especially significant in regions where intensive farming and soil degradation have resulted in boron-deficient lands. In 2023, the Food and Agriculture Organization estimated that up to 34% of greenhouse gas emissions from agricultural land could be mitigated through sustainable soil management practices and more efficient fertilizer use.

Moreover, sodium tetraborate is used as a natural pesticide and fungicide, reducing the need for synthetic chemical treatments. It effectively controls insects, mites, and fungal infections in crops, making it an environmentally friendly alternative to conventional agrochemicals. This aligns with the growing trend toward sustainable and organic farming, where natural compounds are favored over synthetic chemicals.

Governments and agricultural organizations worldwide are promoting the use of micronutrient-enriched fertilizers to combat declining soil quality and improve food security. As a result, the demand for sodium tetraborate in agriculture is expected to grow steadily, contributing to the expansion of the Global Sodium Tetraborate Market.

### Increasing Demand in Metallurgy and Welding Applications

The metallurgy and welding industries represent a significant area of demand for sodium tetraborate, primarily due to its role as a fluxing agent. In welding, borax serves as a key component in flux formulations that remove oxidation, prevent slag formation, and improve metal bonding during the welding process. This ensures stronger and more durable welds, making it an essential material in industrial applications.

Sodium tetraborate is also widely used in non-ferrous metal refining, particularly in the production of gold, aluminum, and steel alloys. It acts as a purifying agent, helping to remove impurities and enhance the overall quality of the metal. As industries such as automotive, aerospace, and heavy machinery continue to grow, the demand for refined metals and efficient welding techniques is increasing. This is fueling the consumption of sodium tetraborate in these applications. The ongoing infrastructure development projects worldwide, including the construction of bridges, skyscrapers, and industrial

plants, are driving the need for high-quality welding materials. Additionally, advancements in automotive and aerospace manufacturing, where precision welding and metal purification are critical, are further boosting demand for sodium tetraborate-based fluxes. Given the rising demand for high-performance metals and welding materials, sodium tetraborate's role in metallurgy is expected to remain strong, contributing to market expansion in the coming years.

### Growth of Sodium Tetraborate in the Ceramics and Enamel Industry

The ceramics and enamel industry is another major consumer of sodium tetraborate, utilizing it as a fluxing agent to enhance the durability, gloss, and thermal resistance of ceramic products. In the production of tiles, pottery, and porcelain, borax is essential in reducing the melting point of silica, allowing for more efficient firing and improved structural integrity. With increasing urbanization and infrastructure development, the demand for high-quality ceramic tiles and sanitary ware has surged. Borax-based glazes and coatings are widely used to create scratch-resistant, smooth, and aesthetically appealing finishes on ceramic products, making them more desirable for architectural and decorative applications.

Additionally, sodium tetraborate plays a crucial role in the enamel and glass coating industry, where it enhances the durability and shine of cookware, kitchenware, and industrial components. Enamel coatings provide corrosion resistance and heat protection, making them ideal for appliances, industrial machinery, and automotive applications. As the consumer preference for high-performance, durable, and visually appealing ceramic and enamel products grows, the demand for sodium tetraborate continues to rise. The expansion of the construction, home decor, and kitchenware industries is expected to drive sustained demand for sodium tetraborate in the ceramics and enamel market, reinforcing its importance in modern manufacturing.

### Segmental Insights

#### Sales Channel Insights

Based on the Sales Channel, the direct sales channel dominated the Global Sodium Tetraborate Market, primarily due to the bulk purchasing behavior of major end-use industries such as detergents, agrochemicals, and glass manufacturing. Large-scale manufacturers prefer procuring sodium tetraborate directly from producers or authorized distributors to ensure a consistent supply, better pricing, and customized product specifications. Direct sales allow for streamlined logistics, reduced dependency on

intermediaries, and greater control over product quality and regulatory compliance.

Industries such as detergents and agrochemicals require sodium tetraborate in large volumes, making direct sales the most efficient distribution model. Key market players establish long-term contracts with manufacturers to ensure price stability and uninterrupted supply, reducing procurement risks. Additionally, leading sodium tetraborate producers operate dedicated sales networks and distribution partnerships to cater to high-volume buyers across different regions. Direct sales also offer advantages such as technical support, customization, and faster delivery, which are crucial for industries that require specific product grades or formulations. Furthermore, the increasing digitalization of B2B transactions has enhanced the efficiency of direct sales, enabling bulk buyers to place orders seamlessly and track shipments in real time.

### Regional Insights

Asia-Pacific dominated the Global Sodium Tetraborate Market, driven by the region's strong industrial base, expanding agricultural sector, and rising demand for detergents and glass products. Countries like China, India, and Japan are key consumers due to their large-scale manufacturing operations and growing need for boron-based compounds in various industries. China, in particular, leads the market as it houses major boron processing facilities and has a high demand for sodium tetraborate in glass and ceramic production, detergents, and fertilizers.

The expanding agriculture sector in Asia-Pacific significantly contributes to sodium tetraborate consumption, as boron-based fertilizers are widely used to enhance crop yields and soil quality. With increasing food security concerns and government initiatives promoting micronutrient-based fertilizers, the demand for sodium tetraborate is expected to remain strong. Additionally, the booming construction industry in emerging economies is fueling the demand for boron-infused glass and ceramics, further boosting market growth. Rapid urbanization, rising disposable incomes, and increasing industrial activities across the region continue to drive sodium tetraborate consumption. The presence of major sodium tetraborate manufacturers, coupled with cost-effective production and favorable trade policies, strengthens Asia-Pacific's leading position in the global market. The region's dominance is expected to persist, supported by technological advancements, industrial expansion, and sustained demand from key end-use sectors.

### Key Market Players

Rio Tinto Group of Companies

FMC Corporation

Liaoning Boron Technology Co., Ltd

Eti Maden

DMCC Speciality Chemicals Limited

#### Report Scope:

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

Sodium Tetraborate Market, By End-Use:

Detergent

Personal Care & Cosmetic

Agrochemical

Pharmaceutical

Others

Sodium Tetraborate Market, By Sales Channel:

Direct Sale

Indirect Sale

Sodium Tetraborate Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Sodium Tetraborate Market.

## Available Customizations:

Global Sodium Tetraborate 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:

## Company Information

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

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