

Flame Retardant Chemicals - A Global Market Overview

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Report description:

Global Flame Retardant Chemicals Market Trends and Outlook

Flame retardant chemicals are substances used to inhibit or delay the ignition and spread of fire in materials such as plastics, textiles, and coatings. They are broadly classified as additive-physically mixed into the base material-or reactive-chemically bonded to the material's molecular structure. These chemicals are further categorized into halogenated and non-halogenated types. Halogenated variants include brominated and chlorinated compounds like polybrominated diphenyl ethers (PBDEs), tetrabromobisphenol A (TBBPA), and chlorinated paraffins. Due to growing concerns about ecological damage and toxicity, several halogenated compounds are being phased out. Non-halogenated flame retardants, which include inorganic, intumescent, nitrogen-based (NFRs), and phosphorus-based (PFRs) varieties, are gaining preference for being less toxic and more environmentally friendly.

A significant trend in the industry is the shift toward sustainable, non-halogenated flame retardants, driven by environmental regulations and health concerns. Regulatory frameworks such as EU REACH, US EPA mandates, and regional fire safety codes have contributed to restricting the use of hazardous halogenated compounds like hexabromocyclododecane (HBCD). This transition is further accelerated by innovation in nanotechnology and material science, which has led to the development of advanced flame retardant solutions such as nano-clay-based materials and intumescent coatings. The demand for flame retardant chemicals is being propelled by industries such as construction, electronics, automotive, and aerospace, where fire safety is paramount. Lightweight, fire-resistant materials are particularly crucial in the automotive and aerospace sectors, including applications in electric vehicles (EVs), where safety and mechanical strength must coexist.

The global market for Flame Retardant Chemicals is projected to reach US\$14.4 billion by 2030, growing from an estimated US\$9.7 billion in 2024, at a CAGR of 6.8% during the period. Several factors are contributing to the growing demand for flame retardant chemicals across global markets. Governments have implemented stringent fire safety regulations, increasing the usage of these chemicals in wiring, insulation, building materials, electronic components, and transportation systems. Rising awareness among consumers, industries, and insurers regarding fire hazards has amplified demand for safer, flame-retardant products. High-profile fire incidents across residential, commercial, and industrial settings, as well as in EVs, have heightened public consciousness about fire prevention. Global trade also plays a role, as exported products must comply with international fire

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safety standards. Rapid urbanization and infrastructure growth in emerging economies have led to increased use of flame retardants in construction materials, while the widespread use of plastics in electronics and the rising demand for flame-retardant cables and textiles in homes and workplaces continue to push the market forward.

Flame Retardant Chemicals Regional Market Analysis

With an estimated share of 42.6% in 2024, Asia-Pacific is the largest global market for Flame Retardant Chemicals, which is also anticipated to clock the fastest 2024-2030 CAGR of 9.2%. The region has emerged as an industrial and manufacturing hub, with countries, such as China, Japan, South Korea and India maintaining strong presence in electronics, automotive and construction. All of this requires large volumes of flame retardant chemicals to make plastics and other materials resistant to fires before being used in cables, appliances and buildings. Rapid infrastructure development in China, India and Southeast Asia is further propelling demand for flame-retardant products, such as cables, insulation and coatings. Asia-Pacific has grown to become the epicenter of consumer electronics (e.g., smartphones & 5G devices) and electric vehicle (EV) production, stimulating demand for flame retardants in engineering plastics and epoxy resins. Another factor is the lower cost of producing flame retardant chemicals in the region, enabling both halogenated and non-halogenated compounds to be manufactured in large volumes. Although halogenated flame retardants have traditionally been more popular in Asia-Pacific, the region is now shifting to non-halogenated alternatives for complying with international standards, such as RoHS and REACH, especially in export markets. All these factors make Asia-Pacific the leading, as well as the fastest growing, worldwide market for Flame Retardant Chemicals.

Flame Retardant Chemicals Market Analysis by Type

Among Halogenated and Non-Halogenated Flame Retardants, the global demand for the former is larger, estimated at 56.2% in 2024. Halogenated flame retardants, such as brominated and chlorinated compounds, have a long history of being widely used because of high efficiency and low cost, remaining prominent in applications like polyolefins, electronics and textiles, where cost-effectiveness is crucial. Halogenated retardants, such as tetrabromobisphenol-A (TBBPA), are deeply integrated into existing supply chains for electronics and automotive components, which allows maintaining their leading position. Also, the cost difference between brominated flame retardants and non-halogenated alternatives is quite high, which increases demand for the former in price sensitive markets, such as Asia-Pacific. However, the market for Halogenated Flame Retardant Chemicals is likely to maintain a slower CAGR of about 6% between 2024 and 2030. Regions, such as North America and Europe, have either fully banned or restricted the use of specific halogenated flame retardants owing to environmental and health concerns, such as the release of toxic gases (dioxins, furans) during combustion. For example, the EU's Regulation (EU) 2019/2021 restricts halogenated flame retardants in electronic displays. Precisely because of this the demand for safer, eco-friendly non-halogenated alternatives, such as phosphorus-based or metal hydroxide-based retardants is expected to post a faster CAGR of 7.7% during the above-mentioned period. These retardants do not produce toxic gases when exposed to fire, which makes them more eco-friendly and safer for human health. Non-halogenated flame retardants are being widely adopted by the automotive, construction and electronics industries, since they adhere to stringent fire safety standards and sustainability goals. Innovations in non-halogenated formulations, such as phosphorus-based and nitrogen-based retardants, have enhanced their performance, making them feasible replacements for halogenated options. Seeing the market potential of these materials, a number of companies, such as BASF and Clariant are investing in R&D to develop high-performance, sustainable non-halogenated flame retardants.

Flame Retardant Chemicals Market Analysis by Grade

Industrial Grade Flame Retardants lead the market for Flame Retardant Chemicals by grade, estimated to corner a share of 62.9% in 2024, a major factor for which is their widespread use high-volume industries, such as construction, textiles and general-purpose plastics. Rapid urbanization in emerging economies has been driving the market for fire-resistant materials in buildings, for which cost-effective industrial grade flame retardants, such as aluminum trihydroxide and magnesium dihydroxide are ideal options. These compounds are less expensive due to lower purity requirements and simpler production processes. In

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addition, industrial grade flame retardants are versatile and can be incorporated into a wide range of materials, including polyolefins, PVC and textiles, without needing precise performance characteristics. On the other hand, the global demand for Technical Grade Flame Retardants will likely register a faster 2024-2030 CAGR of 7.5%. These specialized compounds are higher in purity and developed for high-performance applications requiring stringent fire safety standards, such as electronics, automotive (e.g., electric vehicles), aerospace and advanced polymers. Even at lower loadings, technical grade flame retardants offer better consistency and efficiency. For instance, phosphorus-based and intumescent types can achieve high flame retardancy at loadings of 10%-20%, compared to 60% for aluminum trihydroxide. This preserves mechanical properties and reduces costs in advanced applications, making them attractive for high-value products. Innovations in technical grade flame retardants, such as synergistic formulations (e.g., phosphorus-nitrogen intumescent systems) and nanofiller-enhanced compounds, enhance thermal stability and flame retardancy, making them ideal for cutting-edge applications in 5G devices, lightweight composites and smart textiles.

Flame Retardant Chemicals Market Analysis by Application

Estimated to account for a 2024 share of 44.1%, Polyolefins (primarily polyethylene and polypropylene) constitute the largest variety of plastics to make use of flame retardant chemicals. Polyolefins account for about 45%-50% of the worldwide plastics production and are highly prevalent in the flame retardants market due to their extensive use in construction (e.g., cables, pipes, insulation), automotive (e.g., interior components) and electrical/electronics applications (e.g., wire coatings) requiring flame retardancy. Another factor contributing to the dominance of polyolefins is their compatibility with halogenated (e.g., decabromodiphenyl ether), as well as non-halogenated flame retardants (e.g., aluminum trihydroxide, phosphorus-based compounds). The pairing of polyolefins with inexpensive flame retardants, such as ATH or brominated compounds, makes them cost-competitive for high-volume, price-sensitive applications. Although halogenated flame retardants have historically dominated flame retardant application in polyolefins, a transition to non-halogenated options is in line with regulations, such as RoHS and REACH, thereby maintaining polyolefins' market leadership. In terms of growth, however, the worldwide market for Flame Retardant Chemicals in Engineering Plastics (e.g., polycarbonate, polyamides and ABS) is slated to record the fastest compounded annual rate of 8.7% during 2024-2030. The demand for these plastics is being fueled by an increase in the production of electric vehicles (EVs), 5G devices and consumer electronic devices, such as smartphones & laptops, all of which need flame retardant polycarbonate or polyamide materials to comply with strict fire safety regulations, such as UL-94 V-0. Non-halogenated flame retardants are being preferred for engineering plastics, as they offer greater efficiency in polycarbonates and polyamides at low loadings. Engineering plastics are replacing metals in EV battery housings, aircraft interiors and automotive components to reduce weight and improve efficiency, for which flame retardant polyamides and polycarbonates are widely used.

Flame Retardant Chemicals Market Analysis by End-Use Sector

By end-use sector, Building & Construction is estimated to account for the largest share of 44.4% in the global market for Flame Retardant Chemicals. This sector needs to meet with stringent building fire safety codes, for which flame-retardant materials, such as polyolefins (e.g., polyethylene for cables, polypropylene for insulation), polyurethane foams and coatings are critical. The upsurge in construction being witnessed in emerging economies has increased the demand for fire-resistant building materials, such as cables, pipes, insulation and wall panels. Strict fire safety regulations, such as NFPA codes and EU Construction Products Regulation, have made the use of flame retardants in structural components mandatory, further reinforcing the sector's dependence on these chemicals. With a forecast CAGR of 7.6% between 2024 and 2030, however, the worldwide demand for Flame Retardant Chemicals in the Electrical & Electronics sector will be the fastest growing. This is being driven by a growing market for smartphones, laptops, tablets and 5G infrastructure drives, which further need flame-retardant engineering plastics (e.g., polycarbonate, ABS) and epoxy resins in printed circuit boards (PCBs). A booming EV market is also adding to the growing demand, as flame retardant plastics are being extensively utilized for battery housings, wiring and interiors. The electrical & electronics sector needs precise flame retardancy with minimal impact on material properties. Here, technical grade non-halogenated flame retardants, which are effective even at low loadings of 10%-20%, provide the ideal alternative for high-value applications, such as semiconductors and flexible displays.

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Flame Retardant Chemicals Market Report Scope

This global report on Flame Retardant Chemicals analyzes the market based on type, technology, application and end-use sector for the period 2021-2030 with projections from 2024 to 2030 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2024

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 50+

Flame Retardant Chemicals Market by Geographic Region

- ☐☐ North America (United States, Canada and Mexico)
- ☐☐ Europe (France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe)
- ☐☐ Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- ☐☐ South America (Argentina, Brazil and Rest of Latin America)
- ☐☐ Middle East & Africa

Flame Retardant Chemicals Market by Type

- ☐☐ Halogenated Flame Retardants
 - o☐ Brominated Flame Retardants
 - o☐ Chlorinated Flame Retardants
- ☐☐ Non-Halogenated Flame Retardants
 - o☐ Inorganic Flame Retardants
 - o☐ Intumescent Flame Retardants
 - o☐ Nitrogen-Based Flame Retardants
 - o☐ Phosphorous-Based Flame Retardants

Flame Retardant Chemicals Market by Grade

- ☐☐ Industrial Grade
- ☐☐ Technical Grade

Flame Retardant Chemicals Market by Application

- ☐☐ Polyolefins
- ☐☐ Epoxy Resins
- ☐☐ Polyurethane
- ☐☐ Polyvinyl Chloride
- ☐☐ Engineering Plastics
- ☐☐ Other Applications (primarily Polystyrene, Rubber, Styrenics & Unsaturated Polyester Resins)

Flame Retardant Chemicals Market by End-Use Sector

- ☐☐ Automotive & Transportation
- ☐☐ Building & Construction

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- Electrical & Electronics
- Other End-Use Sectors (Incl. Textiles, Furniture and Wires & Cables)

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3. Key Market Players

- Adeka Corp
- AkzoNobel NV
- Albemarle Corp
- Amfine Chemical Corp
- Avient Corp
- Axipolymer Incorporation
- BASF SE
- Budenheim Iberica S.L.U
- Celanese Corp
- Century Multech, Inc.
- Clariant AG
- Daihachi Chemical Industry Co Ltd

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- DIC Corp
- Dongying Jingdong Chemical Co Ltd
- Dover Chemical Corp
- Eastman Chemical Co
- Eti Maden
- FRX Innovations
- Greenchemicals SRL
- Gulec Chemicals GmbH
- Hangzhou Lingrui Chemical Co Ltd
- Hongbaoli Group Co Ltd
- Huntsman International LLC
- ICL Group Ltd.
- Israel Chemicals Group Ltd
- Italmatch Chemicals SpA
- J.M. Huber Corp
- Jiangsu Jacques Technology Co Ltd
- Kemipex
- Kisuma Chemicals
- Lanxess AG
- Lubrizol Corp
- Momentive Performance Materials, Inc.
- MPI Chemie BV
- Muby Chemicals
- Nabaltec AG
- Nippon Carbide Industries Co, Inc.
- Nyacol Nano Technologies, Inc.
- Otsuka Chemical Co Ltd
- PCC SE
- Presafer (Qingyuan) Phosphor Chemical Co Ltd
- Qingdao Fundchem Co Ltd
- Rinkagaku Kogyo Co Ltd
- RTP Co, Inc.
- Sanwa Chemical Co Ltd
- Sasol Ltd
- Shandong Brother Sci & Tech Co Ltd
- Stahl Holdings BV
- Thor Group Ltd
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