

# **UV Absorbers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028**

## **Segmented By Type (Benzophenone, Benzotriazole, Triazine), By Application (Plastics, Coatings, Adhesives, Personal Care & Others), By Region and Competition**

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### **Abstracts**

Global UV Absorbers Market has valued at USD998.64 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.24% through 2028. Ultraviolet Absorber (UV) is a material used to absorb ultraviolet light and release energy in the form of heat or store it in batteries for various applications. They play a crucial role in protecting materials from the harmful effects of ultraviolet light, thereby enhancing their performance, durability, service life, and stability. Depending on the substrate, intended functional life, and sensitivity to UV degradation of the materials, different types of UV absorbers are utilized. Additionally, in neutral or transparent applications, UV absorbers also act as UV stabilizers to provide effective UV resistance for short-term exposures. In this way, they contribute to maintaining the integrity and quality of the materials.

UV absorbers are composed of a diverse range of raw materials, including CDON, CYC, benzoyl chloride, benzene, aluminum chloride, sodium nitrite, and more. The selection of these raw materials is based on the specific requirements and specifications of the end-use applications. UV absorbers, along with Hindered Amine Light Stabilizers (HALS) quenchers, find significant applications in various coating substrates such as flooring, decking, furniture, as well as interior and exterior parts of automobiles. Moreover, the utilization of UV light stabilizers has witnessed a surge in the packaging industry and agricultural tapes and films. The escalating demand for

wood and plastic coatings to protect against UV radiation is a key driver for the global UV Absorbers Market.

Furthermore, the ongoing growth of the housing and construction industries in the Asia-Pacific region is expected to contribute to the expansion of the UV Absorbers Market in the future. Additionally, the adoption of nanotechnology in the coating industries is anticipated to supplement the growth of UV Absorbers Market, offering advanced solutions, and further enhancing their effectiveness. The increasing levels of UV radiation have led to the rising usage of refrigerators and air conditioning, which release gases that affect the ozone layer, resulting in higher levels of UV radiation.

The UV Absorbers Market is primarily driven by the growing demand for applications such as automotive plastics, packaging, agricultural films, coatings, adhesives, and personal care products. The increasing utilization of plastics for various purposes fuels the demand for UV absorbers, creating opportunities for research and development of innovative solutions. Additionally, the rising awareness about the benefits of UV absorbers is expected to propel the market further. However, the high cost of raw materials required for manufacturing UV absorbers poses a challenge to the market's growth. The raw material market for UV absorbers is highly volatile, with significant impacts on the price fluctuations of materials such as CDON, CYC, benzene, aluminum chloride, and amines, among others.

The availability and prices of raw materials, especially CDON, CYC, and chlorides, are subject to fluctuations, and any increase in their prices can adversely affect the manufacturing cost. CDON and CYC are key components in the synthesis of UV absorbers used in plastic components, while TAA is the main raw material for HALS. Since 2000, the prices of these materials have experienced fluctuations, leading major manufacturers and suppliers to adjust the prices of UV absorbers in the application market. Furthermore, the availability of inorganic UV absorbers, which serve as effective alternatives to organic UV absorbers, poses a significant restraint to the UV Absorbers Market. According to NASA, the level of UV radiation has significantly increased over the past 30 years, resulting in degenerative effects on materials exposed to sunlight. The heightened UV radiation, attributed to the extensive use of gas-emitting equipment, further drives the demand for UV absorbers.

Additionally, there is a growing awareness among people about the harmful effects of materials such as plastics and wood. Exposure to UV radiation can trigger a polymer photo-degradation process, leading to the deterioration of physical properties such as color change, material strength loss, surface chalking, and more. To prevent such

damage and avoid losses, manufacturers rely on UV light stabilizers to protect components exposed to UV radiation. Nanotechnology plays a significant role in the UV Absorbers Market, particularly in the development of nanocomposite materials. These materials have the capability to enhance the properties of coating systems by improving UV absorbers and scratch-resistance, thereby increasing the longevity of coated substrates. Inorganic UVA, such as nano-sized oxides like TiO<sub>2</sub>, ZnO<sub>2</sub>, and CeO<sub>2</sub>, contribute to the overall effectiveness and durability of the coated products.

## Key Market Drivers

### Growing Demand of UV Absorbers in Automotive Industry

The automotive industry has experienced a significant surge in the demand for UV absorbers, which has emerged as a key driver of the global UV absorbers market. As the automotive sector strives for continuous improvement, the need for effective protection against the harmful effects of ultraviolet (UV) radiation becomes paramount. UV absorbers play a vital role in shielding automotive surfaces from the detrimental impact of UV rays, ensuring not only the longevity but also the aesthetic appeal of vehicles.

UV radiation emitted by the sun can wreak havoc on various automotive components, including exterior paints, plastics, and rubber materials. Fading, discoloration, and degradation are common consequences of prolonged exposure to UV rays. However, the implementation of UV absorbers mitigates these issues by absorbing and dissipating UV radiation, preventing its negative impact on vehicle surfaces.

The growing demand for UV absorbers in the automotive industry can be attributed to consumers' increased focus on preserving the appearance and value of their vehicles. With significant investments made in expensive automobiles, owners expect their prized possessions to retain their original color and finish over time. UV absorbers play a crucial role in preventing color fading and maintaining the aesthetic appeal of vehicles, thus enhancing their overall value and visual allure.

Furthermore, the automotive industry's relentless pursuit of lightweighting and sustainability has also contributed to the rising demand for UV absorbers. As automakers strive to reduce the weight of vehicles by incorporating lighter materials like plastics and composites, these materials become more vulnerable to UV damage. UV absorbers offer an effective solution by safeguarding these lightweight materials from degradation caused by UV radiation.

The increasing adoption of advanced automotive manufacturing technologies, such as water-based coatings and UV-curable systems, has further fueled the demand for UV absorbers. These cutting-edge technologies provide advantages such as improved efficiency, reduced emissions, and faster curing times. However, they are also more susceptible to UV degradation. UV absorbers play a critical role in these applications by providing essential protection, ensuring the durability and performance of automotive coatings and finishes.

Furthermore, stringent regulations and standards pertaining to vehicle safety and environmental impact have exerted significant influence on the demand for UV absorbers in the automotive industry. As governments worldwide prioritize the reduction of harmful emissions and promote sustainable practices, UV absorbers emerge as a key solution for automakers to meet regulatory requirements. By extending the lifespan of vehicles and reducing the need for frequent repairs and replacements, UV absorbers contribute to both safety and sustainability efforts.

In conclusion, the increasing demand for UV absorbers in the automotive industry can be attributed to various factors, including the need for protection against UV radiation, consumer expectations for vehicle appearance and value, the drive towards lightweighting and sustainability, the adoption of advanced manufacturing technologies, and compliance with stringent regulations. As the automotive sector continues to evolve, UV absorbers will remain a crucial component in ensuring the longevity, aesthetic appeal, and environmental sustainability of vehicles.

### Growing Demand of UV Absorbers in Agriculture Industry

UV absorbers are experiencing a growing demand in the agriculture industry, which has emerged as a significant driver of the global UV absorbers market. The detrimental effects of UV radiation from the sun on crops, plants, and agricultural materials have become more apparent, resulting in reduced productivity, and compromised quality. Recognizing the need for protection, the implementation of UV absorbers has become vital in safeguarding agricultural assets and ensuring optimal growth and yield.

One of the primary reasons behind the increasing demand for UV absorbers in the agriculture industry is the rising awareness among farmers and growers about the damaging effects of UV radiation on plants. Excessive exposure to UV radiation can cause cellular damage, hinder photosynthesis, and lead to diminished crop quality. By incorporating UV absorbers into agricultural applications, farmers can effectively

mitigate these issues and safeguard their crops.

UV absorbers function by absorbing and dissipating harmful UV radiation, preventing it from reaching the plants' sensitive tissues. This mechanism helps reduce stress on the plants, promote healthier growth, and enhance overall crop productivity. Additionally, UV absorbers play a crucial role in minimizing the impact of UV radiation on agricultural materials, such as greenhouse films, mulch films, and protective covers, thereby extending their lifespan and maintaining performance.

Furthermore, the increasing adoption of protected cultivation practices, such as greenhouse farming and high tunnel systems, has further contributed to the demand for UV absorbers in the agriculture industry. While these controlled environments provide ideal growing conditions, they can also expose plants to higher levels of UV radiation. Therefore, UV absorbers are utilized to create protective barriers that filter out harmful UV rays while allowing beneficial light for optimal plant growth.

The pressing concerns of climate change and its associated challenges, including higher UV radiation levels due to ozone depletion, have also prompted the widespread use of UV absorbers in agriculture. With unpredictable weather patterns and increasing environmental stressors, farmers are seeking proactive solutions to protect their crops from the adverse effects of UV radiation and maintain optimal growing conditions. UV absorbers offer an effective means to tackle these challenges and safeguard crop health in an ever-changing climate.

## Key Market Challenges

### Volatility in Prices of Raw Materials

The global market for UV absorbers has been experiencing steady growth in recent years, driven by the increasing demand for UV protection across various industries. This demand stems from the growing awareness of the harmful effects of UV radiation on human health and the need for effective measures to mitigate these risks. UV absorbers play a crucial role in providing the desired level of protection by absorbing and dissipating UV radiation.

However, one of the significant challenges faced by the global UV absorbers market is the volatility in prices of raw materials. UV absorbers are manufactured using specific raw materials that provide the desired properties for UV protection. These raw materials can include benzene, benzoyl chloride, sodium nitrite, and other specialty chemicals.

The prices of these raw materials are subject to fluctuations due to several factors such as supply-demand dynamics, market conditions, and global economic factors.

When the prices of raw materials used in UV absorbers rise, manufacturers face challenges in maintaining competitive pricing and profitability. The increased costs of raw materials directly impact the overall production cost of UV absorbers, potentially leading to higher product prices for consumers. This can create barriers to market entry and pose challenges for both existing and new players in the UV absorbers market.

Additionally, the volatility in raw material prices can disrupt the supply chain and lead to uncertainties in production planning. Manufacturers may face difficulties in managing inventory levels and ensuring a stable supply of raw materials. Fluctuating prices can also create challenges in forecasting and budgeting for UV absorber manufacturers, requiring them to closely monitor and adapt to market fluctuations.

Moreover, the UV absorbers market operates under stringent regulatory requirements and standards. Compliance with these regulations often involves additional costs and resources for manufacturers. When the prices of raw materials increase, manufacturers may face challenges in meeting regulatory requirements while ensuring cost-effectiveness. This can further complicate the production process and add to the overall challenges faced by the UV absorbers industry.

In conclusion, while the global market for UV absorbers continues to grow, it is not without its challenges. The volatility in raw material prices, coupled with regulatory requirements, poses significant hurdles for manufacturers. To thrive in this industry, companies must stay vigilant, adapt to market fluctuations, and find innovative ways to maintain profitability while meeting the increasing demand for UV protection.

## Key Market Trends

### Rising Concerns About UV-Induced Skin Damage

As the global market for UV absorbers continues to grow, driven by the rising trend of concerns about UV-induced skin damage, it is crucial to understand the detrimental effects of ultraviolet (UV) radiation on the skin. Exposure to UV radiation can cause DNA damage, genetic mutations, premature aging, and an increased risk of skin cancer. With increasing awareness of these risks, individuals are now prioritizing sun protection to safeguard their skin health. This has led to a growing need for effective UV protection solutions, resulting in an increased demand for UV absorbers in the market.



UV absorbers play a vital role in protecting the skin from the harmful effects of UV radiation. These chemical compounds are incorporated into various products such as sunscreens, moisturizers, and cosmetics, forming a protective barrier against UV rays. By absorbing or reflecting UV radiation, these compounds help prevent skin damage, sunburns, premature aging, and reduce the risk of skin cancer.

The trend of rising concerns about UV-induced skin damage presents both opportunities and challenges for the global UV absorbers market. On one hand, it opens up new avenues for manufacturers to develop innovative UV protection solutions and expand their product portfolios. On the other hand, it puts pressure on the industry to ensure the safety, efficacy, and regulatory compliance of UV absorbers used in various applications.

To address the increasing concerns, manufacturers in the UV absorbers market need to invest in research and development to create safer and more effective UV protection solutions. This includes exploring new compounds, formulations, and technologies that offer enhanced UV absorption capabilities while minimizing potential health and environmental risks. Collaborations between industry players, regulatory bodies, and research institutions can also contribute to advancing the understanding of UV-induced skin damage and developing appropriate preventive measures.

Furthermore, educating consumers about the importance of sun protection and raising awareness about the potential risks associated with UV radiation is crucial. Promoting safe sun practices and encouraging the use of UV absorber-infused products can help reduce the incidence of UV-induced skin damage and promote overall skin health. By providing detailed information and emphasizing the significance of UV protection, individuals can make informed choices to safeguard their skin and well-being.

## Segmental Insights

### Type Insights

Based on the category of type, the benzotriazole segment emerged as the dominant player in the global market for UV Absorbers in 2022. Due to its extensive application in various industries such as plastics, packaging, adhesives, and personal care products, as well as its wide safety range, there is growing concern about the potential harm it poses in UV-A and UV-B areas. In comparison to benzophenone, Benzotriazole offers superior protection against UV radiation, making it a preferred choice for outdoor

weathering over Triazine. Its effectiveness in shielding against harmful UV rays makes it an essential component in ensuring the longevity and durability of materials exposed to the elements.

### Application Insights

The Plastics segment is projected to experience rapid growth during the forecast period. The growth in demand for plastics from packaging and agricultural films has significantly contributed to the expansion of the plastics market. One of the challenges faced by plastics, such as polyvinyl chloride and polycarbonate, is their susceptibility to deterioration when exposed to UV radiation. This exposure triggers chemical reactions within the plastics, leading to the disintegration and degradation of their chemical and physical properties. As a result, there is a growing need for UV absorbers to counteract the negative effects of UV radiation. Additionally, the rapid growth of the automotive industry is expected to further drive the demand for UV absorbers, particularly in applications involving coatings and adhesives. These factors collectively highlight the importance of UV absorbers in maintaining the performance and longevity of plastic materials in various industries.

### Regional Insights

Asia Pacific emerged as the dominant player in the Global UV Absorbers Market in 2022, holding the largest market share in terms of value. The market for industrial UV absorbers in this area is projected to witness significant growth due to the ongoing industrialization and expansion of end-use industries. With the booming automotive sector, there is a strong anticipation that the demand for UV absorbers will soar in applications such as automotive plastics, laminates, and adhesives. Moreover, the UV absorbers market in this region thrives due to relaxed regulations, creating a favorable environment for growth. Additionally, the Asia Pacific region, including countries like China, Japan, and India, has experienced an increased awareness of the benefits offered by UV absorbers, leading to a surge in demand. This compelling combination of factors propels the UV absorbers market towards promising opportunities and sustainable growth in this area.

### Key Market Players

Amfine Chemical Corporation

Anhui Best Progress Imp & Exp Co.,Ltd



BASF SE

Clariant AG

Everlight Chemical Industrial Corp,

Greenchemicals SpA

Hangzhou Disheng Import&Export Co., Ltd.

Hunan Chemical BV

Huntsman International LLC

Rianlon Corporation

Report Scope:

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

UV Absorbers Market, By Type:

Benzophenone

Benzotriazole

Triazine

UV Absorbers Market, By Application:

Plastics

Coatings

Adhesives

Personal Care

Others

UV Absorbers 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

Kuwait

Turkey

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global UV Absorbers Market.

## Available Customizations:

Global UV Absorbers Market report with the given market data, Tech Sci 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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