

# **Topical Cyanoacrylates Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (2-Octyl Cyanoacrylate, n-Butyl-Cyanoacrylate), By Application (General Surgery, Plastic Surgery and Aesthetic Procedures, Orthopedic, Pediatric, Gynecology, Dental Surgery, Others), By End User (Hospitals, Outpatient Clinics, Home Care Setting, Others), By Region and Competition, 2020-2030F**

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## **Abstracts**

### **Market Overview**

Global Topical Cyanoacrylates Market was valued at USD 98.62 Million in 2024 and is expected to reach USD 137.50 Million by 2030 with a CAGR of 5.67%. The Global Topical Cyanoacrylates Market is witnessing strong momentum driven by the increasing adoption of advanced wound closure solutions in healthcare systems. Topical cyanoacrylates, widely known as medical-grade adhesives, are gaining preference over traditional sutures and staples due to their ability to provide painless, rapid, and non-invasive closure of surgical incisions and traumatic wounds. Rising prevalence of chronic wounds, burns, and accidental injuries has significantly increased the demand for efficient closure products that minimize infection risks while enhancing healing outcomes. The growing burden of surgical procedures globally, coupled with the rising need for minimally invasive approaches, is also accelerating market growth. Continuous product innovation by manufacturers, focusing on enhanced biocompatibility and improved flexibility, has expanded the scope of applications across pediatric, geriatric, and emergency care settings, further strengthening the adoption of cyanoacrylates as a

mainstream wound closure solution.

Key growth drivers include the increasing preference for cost-effective wound management products, the rising burden of traumatic injuries, and the need for reduced hospital stays to lower healthcare costs. Patients and healthcare providers are increasingly favoring topical adhesives as they eliminate the need for removal, reduce scarring, and lower the risk of infections compared to conventional sutures. Technological advancements are also shaping the market, with next-generation cyanoacrylate formulations offering enhanced tensile strength, waterproof properties, and compatibility with sensitive skin. Market players are focusing on expanding their portfolios through research and development, particularly for use in specialized surgeries such as cosmetic, cardiovascular, and orthopedic procedures. Growing awareness regarding infection prevention and patient comfort has also bolstered the demand for these adhesives in both hospital and outpatient care settings.

The market, however, faces challenges that may restrain its growth trajectory in the coming years. The high cost of advanced formulations, particularly in low- and middle-income economies, limits adoption in resource-constrained healthcare systems. Safety concerns regarding skin irritation, allergic reactions, and long-term outcomes in certain patient groups remain critical hurdles. Regulatory complexities for product approvals and compliance with stringent healthcare standards also create barriers for new entrants and delay the introduction of innovative solutions. Limited awareness among healthcare providers in some regions about the benefits of topical cyanoacrylates compared to traditional closure methods further restricts penetration. Despite these obstacles, continuous R&D investments, expanding applications in specialized surgeries, and the growing focus on enhancing post-operative recovery create opportunities for the market to evolve and capture a larger share in global wound care practices. The balance between innovation, affordability, and clinical outcomes will play a decisive role in shaping the growth of the Global Topical Cyanoacrylates Market.

## **Key Market Drivers**

### **Rising Preference for Minimally Invasive Procedures**

The Global Topical Cyanoacrylates Market is gaining strong momentum as healthcare systems worldwide witness a growing preference for minimally invasive procedures over traditional surgical interventions. Patients and providers are prioritizing solutions that reduce trauma, shorten hospital stays, and improve recovery outcomes. Conventional wound closure methods, such as sutures and staples, though effective, are associated

with longer healing times, higher risk of infections, scarring, and patient discomfort. In contrast, topical cyanoacrylates provide a fast, painless, and efficient closure method by forming a durable adhesive barrier on the skin surface. This feature makes them particularly suitable for small lacerations, dermatological surgeries, cosmetic procedures, and emergency care settings where speed and safety are critical.

The adoption of cyanoacrylate-based adhesives aligns with the healthcare industry's broader shift toward outpatient and ambulatory services, which are designed to optimize costs and enhance patient experiences. According to the Agency for Healthcare Research and Quality (AHRQ), approximately 12.4 million ambulatory surgery encounters were recorded in the United States in 2022, reflecting the increasing reliance on outpatient interventions. This surge in outpatient volumes is creating higher demand for wound closure solutions that are less invasive, require minimal post-procedure care, and allow patients to return to daily activities quickly. Cyanoacrylates address these requirements effectively, making them a preferred choice in hospitals, ambulatory surgical centers, and emergency departments.

In pediatric and geriatric care, the appeal of topical cyanoacrylates is even stronger. Pediatric patients often experience anxiety and distress with suturing, while older patients may have fragile skin that heals poorly when subjected to invasive closure techniques. The ability of cyanoacrylates to provide secure closure without additional trauma improves patient compliance and outcomes across these sensitive groups. Cosmetic and plastic surgeons are also driving adoption, as the adhesives help achieve cleaner aesthetic results with reduced scarring, aligning with the rising demand for procedures where visual outcomes are highly valued.

## **Key Market Challenges**

### **Risk of Cytotoxicity and Tissue Irritation**

One of the major challenges restraining the growth of the Global Topical Cyanoacrylates Market is the risk of cytotoxicity and tissue irritation associated with their application. While these adhesives provide fast and effective wound closure, the chemical composition and polymerization process can sometimes release byproducts that negatively impact surrounding tissues. In certain cases, patients experience localized inflammation, redness, or burning sensations at the wound site, which can compromise healing outcomes. This risk is more pronounced in individuals with sensitive skin, pediatric patients, or those with pre-existing dermatological conditions. Prolonged or repeated exposure may also increase the likelihood of adverse reactions,

raising concerns about their suitability for widespread use across diverse patient populations. Medical professionals often exercise caution when selecting cyanoacrylate products, as potential irritation can deter adoption despite the convenience and cosmetic benefits these adhesives offer. The perception of safety is critical in wound care, and any evidence of cytotoxicity can influence both clinical decision-making and patient trust in such products.

Manufacturers face the ongoing challenge of innovating safer formulations that retain strong adhesive properties while minimizing harmful effects on tissues. This has led to increased research efforts aimed at reducing toxicity levels, enhancing biocompatibility, and incorporating additives that can soothe irritation. However, the regulatory process for approving such innovations is rigorous and time-intensive, slowing down market penetration of improved variants. Until advancements fully address these safety concerns, the risk of tissue irritation and cytotoxicity will remain a key barrier limiting the broader adoption of topical cyanoacrylates in both clinical and consumer healthcare settings, thereby impacting the overall growth potential of the market.

## **Key Market Trends**

### **Rising Preference for Non-Invasive Wound Closure Solutions**

The Global Topical Cyanoacrylates Market is experiencing a strong shift driven by the rising preference for non-invasive wound closure solutions, as healthcare providers and patients increasingly seek alternatives to traditional sutures and staples. Topical cyanoacrylates are gaining prominence due to their ability to provide rapid wound closure without penetrating the skin, which reduces procedural time, minimizes patient discomfort, and lowers the risk of complications such as infections or suture-related trauma. This trend is being amplified in emergency care, dermatology, cosmetic surgery, and pediatric applications, where aesthetics, safety, and efficiency are highly valued.

The use of cyanoacrylate adhesives not only delivers functional closure but also supports faster recovery, less scarring, and improved patient satisfaction, making them a preferred choice in modern wound management practices. Hospitals and outpatient facilities are increasingly adopting these adhesives as they align with the growing demand for minimally invasive procedures and reduced hospital stays. Patients also favor non-invasive methods that offer improved cosmetic outcomes, which is driving their wider acceptance across both developed and emerging healthcare markets. The combination of clinical benefits, reduced procedure complexity, and patient-centric

outcomes is strengthening the global adoption of topical cyanoacrylates as an essential tool in wound care and surgical applications, shaping the future of wound closure technologies.

## **Key Market Players**

Medline Industries, LP

Advanced Medical Solutions Group plc

H.B. Fuller Medical Adhesive Technologies, LLC

Meril Life Sciences Pvt. Ltd.

Ethicon, Inc. (Johnson & Johnson MedTech)

Medtronic plc

Alfa Pharma GmbH

Epiglue Pharma Pvt. Ltd.

B.Braun SE

Resivant Medical LLC

## **Report Scope:**

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

Topical Cyanoacrylates Market, By Product:

2-Octyl Cyanoacrylate

n-Butyl-Cyanoacrylate

### Topical Cyanoacrylates Market, By Application:

- General Surgery
- Plastic Surgery and Aesthetic Procedures
- Orthopedic
- Pediatric
- Gynecology
- Dental Surgery
- Others

### Topical Cyanoacrylates Market, By End User:

- Hospitals
- Outpatient Clinics
- Home Care Setting
- Others

### Topical Cyanoacrylates 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**

*Topical Cyanoacrylates Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By P...*

Company Profiles: Detailed analysis of the major companies present in the Global Topical Cyanoacrylates Market.

**Available Customizations:**

Global Topical Cyanoacrylates 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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