

Liquid Embolic Agent Market Size, Share & Trends Analysis Report By Product Type (Ethylene Vinyl Alcohol Copolymer, Cyanoacrylates), By Application (Arteriovenous Malformations, Hypervascular Tumors), By End Use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

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Liquid Embolic Agent Market Summary

The global liquid embolic agent market size was estimated at USD 257.9 million in 2024 and is projected to reach USD 595.0 million by 2033, growing at a CAGR of 9.89% from 2025 to 2033. The liquid embolic agent industry is primarily driven by advancements in minimally invasive procedures and the increasing prevalence of vascular diseases worldwide.

As healthcare systems shift towards less invasive techniques, the demand for embolization agents used in treating conditions like aneurysms, arteriovenous malformations (AVMs), and tumors has surged. The growing neurovascular and peripheral vascular abnormalities and diseases such as AVMs, dural arteriovenous fistulas (DAVFs), and hypervascular tumors, among others are primarily driving the market growth. According to a research article published by the National Center for Biotechnology Information, arteriovenous malformations (AVMs) are often asymptomatic in about 15% of cases until a clinical event occurs. Between 41% and 79% of AVMs are present with intracranial hemorrhage. They are the second most common cause of intracranial bleeding after cerebral aneurysms, accounting for

approximately 10% of all subarachnoid hemorrhages.

Children are more likely than adults to be present with hemorrhage. While hemorrhages are typically intraparenchymal, they can also primarily occur in the subarachnoid space. In addition, according to an article published by Radiopaedia.org in November 2024, the incidence of solitary AVM is 98% and multiple AVM is 2%. Thus, growing AVM cases are a primary contributor to market growth.

Furthermore, according to an American Chemical Society report published in April 2021, brain aneurysms are abnormal dilations that primarily develop at the branch points of cerebral blood vessels. Over 60% of aneurysms are now managed using minimally invasive endovascular techniques, such as flow diversion or the permanent placement of metallic intrasaccular coils. However, these current devices have an unfavorable primary success rate in approximately 20-30% of cases, and the overall effectiveness varies significantly depending on the aneurysm's type and location. Hence, this brings a growth opportunity for the liquid embolic agent industry during the forecast period.

Neurovascular embolization is commonly performed using liquid embolic agents to treat conditions such as AVMs, DAVFs, and hypervascular tumors. Currently, commonly used liquid embolic agents include n-butyl cyanoacrylate (n-BCA) and ethylene vinyl alcohol copolymer (EVOH) based agents, such as Onyx (Medtronic), Squid (Balt), and PHIL (Terumo), a non-biodegradable iodine-based liquid embolic agent. Additionally, TRUFILL (CERENOVUS, Johnson & Johnson) has recently been introduced. For instance, in March 2024, CERENOVUS, a division of Johnson & Johnson MedTech, announced the launch of the TRUFILL n-BCA Liquid Embolic System Procedural Set. This new offer expands CERENOVUS's hemorrhagic stroke portfolio by providing a comprehensive procedural set that includes two configuration options and all necessary accessories for preparing and delivering the TRUFILL n-BCA Liquid Embolic System. These agents are favored for their ability to effectively occlude abnormal vascular structures, providing minimally invasive treatment options with high precision. The choice of embolic agent depends on the specific clinical scenario and lesion characteristics, with ongoing innovations aiming to improve safety, handling, and long-term efficacy in neurointerventional procedures.

Global Liquid Embolic Agent Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis on the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global liquid

embolic agent market report based on product type, application, end use, and region:

Product Type Outlook (Revenue, USD Million, 2021 - 2033)

Ethylene Vinyl Alcohol Copolymer (EVOH)

Cyanoacrylates

N-BCA (n-Butyl Cyanoacrylate)

N-HCA (n-Hexyl Cyanoacrylate)

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Arteriovenous Malformations (AVM)

Hypervascular Tumors

Peripheral Vasculature Hemorrhage

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Specialty Clinics

Ambulatory Surgical Centers (ASCs)

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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