

N-Cyclohexylbenzothiazole-2-sulfenamide Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

The N-Cyclohexylbenzothiazole-2-sulfenamide (CBS, CAS #95-33-0) market embodies a pivotal segment within the rubber chemicals and vulcanization accelerators industry, where this primary sulfenamide accelerator—distinguished by its cyclohexyl substitution and benzothiazole core—delivers exceptional scorch safety, rapid cure kinetics, and non-carcinogenic profile, enabling the production of high-performance tires, hoses, footwear, and cables that meet stringent safety and durability standards across automotive, industrial, and consumer applications. This light yellow to beige powder, with a melting point of 98–102°C and molecular weight of 264.41 g/mol, functions as a delayed-action super-accelerator that decomposes at 140–160°C to release mercaptobenzothiazole (MBT) radicals, initiating efficient polysulfide bridging with flat rheometer curves ($M > 15$ dNm) and scorch times $t_{S2} > 8$ minutes at 121°C per ASTM D5282, while its primary amine structure eliminates nitrosamine formation during vulcanization—unlike secondary amine analogs such as NOBS—ensuring compliance with REACH Annex XVII and OSHA 1910.1003 for workplace safety. With excellent dispersibility (16 dNm and compression set

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