

# N,N-Dicyclohexylbenzothiazole-2-sulphenamide Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

<https://marketpublishers.com/r/N27242D63B35EN.html>

Date: November 2025

Pages: 100

Price: US\$ 3,200.00 (Single User License)

ID: N27242D63B35EN

## Abstracts

The N,N-Dicyclohexylbenzothiazole-2-sulphenamide (DCBS, CAS #4979-32-2) market represents a specialized niche within the rubber chemicals and vulcanization additives industry, where this delayed-action sulfenamide accelerator—known for its exceptional scorch resistance and processing safety—plays a critical role in optimizing the curing process for natural and synthetic rubber compounds, particularly those reinforced with fine-particle furnace blacks, enabling the production of high-strength, durable products like radial tires, conveyor belts, and OTR tires that withstand extreme dynamic stresses without premature gelling or reversion. This light beige to off-white powder, characterized by its molecular formula  $C_{19}H_{26}N_2S_2$  and melting point of 96–100°C, functions as a semi-ultra accelerator that decomposes under thermal activation (140–160°C) to release mercaptobenzothiazole (MBT) intermediates, facilitating controlled polysulfide cross-linking with flat rheometer curves ( $M > 10$  dNm) and extended scorch times ( $t_{S2} > 10$  minutes at 121°C per ASTM D5282), while its cyclohexyl substituents confer low volatility (vapor pressure 12 dNm per ASTM D5282), enabling 98% crosslink density in skim stocks for tire plies without reversion in open steam (121°C/30 min) while its dicyclohexyl groups avoid tackiness (90% under mild alkaline conditions). This intermediary prowess, amplified by 1980s advancements in delayed-action tuning, has sustained 5–7.5% annual growth in polymer intermediates, particularly in U.S. and European pipelines for automotive weatherstripping. Moreover, it is employed in natural rubber for tire carcasses, metal skeleton rubber for industrial hoses, and retreading for fleet renewals, where its sulfenamide structure enables amphiphilic assemblies via RAFT polymerization, yielding composites with 80% interfacial cohesion for off-road treads. This structuring trend, gaining traction post-2000

with sustainability booms, aligns with precision vulcanization, as evidenced by 2020s publications on DCBS hybrids for recycled tire retreading, portending a 10–15% CAGR in advanced materials through 2030. At present, Kemai Chemical currently holds 8,000 tons of rubber accelerator DCBS capacity, focusing on high-volume production for tire dipping. China Sunshin Chemical's DCBS capacity will expand from 3,000 tons to 8,000 tons in 2025, supporting domestic rubber processors with granular DCBS for radial curing in belt skim compounds. Shandong Yanggu Huatai's 6,000-ton DCBS project was completed and commissioned in 2024, targeting the tire and belting markets with high-scorch grades for radial ply reinforcement. Qingdao Huaheng Auxiliary's DCBS capacity stands at 6,000 tons, serving the rubber and belting industries with precision production for synthetic rubber in seals and hoses. Collectively, these facets—from accelerator superiority to capacity expansions—chart this compound's trajectory as a linchpin in rubber chemicals, evolving from cure staple to high-value accelerator architect amid sustainability imperatives.

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