



SOVEREIGN CHEMICAL COMPANY

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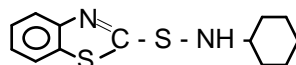
Sovchem® CBS Granules

Manufacturer: Sovereign Chemical Company

Classification: Sulfenamide Accelerator

Chemical Composition:

Chemical Structure:



Empirical Formula: C₁₃H₁₆N₂S₂

Molecular Weight: 264

CA Nomenclature: N-cyclohexyl-2-benzothiazolesulfenamide

Synonym Nomenclature: 2-Benzothiazolesulfenamide, N-cyclohexyl
N-cyclohexyl-2-benzothiazylsulfenamide

Physical Data

Specification Properties	Value	Test Method
Melting Point (Initial)	96° C Minimum	ASTM D 1519
Melting Point (Final)	100 - 105° C	ASTM D 1519
Assay, % by mass	95 Minimum	ASTM D 4936
Heat Loss, % by mass	0.5 Maximum	ASTM D 4571
Ash Content, % by mass:	0.3 Maximum	ASTM D 4574
Methanol Insolubles, % by mass	0.5 Maximum	ASTM D 4934

Typical Properties

Appearance	Offwhite to grayish white Granules	Visual
Specific Gravity at 25°C	1.27 – 1.30	Typical

Applications

Delayed action sulfenamide accelerator. **CBS** has the ability to provide fast efficient mixing of difficult highly loaded carbon black reinforced compound without sacrificing scorch safety or physical properties. Its vulcanizates have good reversion and aging resistance.

Polymers: Natural rubber and most synthetic elastomers.

Synergism: **CBS** cure performance can be boosted with thiuram or guanidine accelerators.

Cure Effect: **CBS** promotes a fast cure with good scorch safety.

Crosslink Type: **CBS** promotes a balance of mono-, di- and poly-sulfidic crosslinks resulting in vulcanizates with a good balance between heat aging resistance and tear resistance.

FDA Regulations:

Food contact surface component 21 CFR 177.2600(c)(4), 1.5% maximum weight of rubber article.

Packaging and Storage

Packaging: 25 kg (55.1) lb. Net, paper bags.

Shelf Life: 1 year if stored as indicated below.

Storage: Store below 30°C in a dry place avoiding exposure to acidic atmosphere fumes and /or contamination with any other material to prevent premature degradation.

Specification Date: July 16, 2004 (Supersedes: November 3, 2003)