



SOVEREIGN CHEMICAL COMPANY

1225 West Market St., Akron, Ohio 44313

Phone: 330-869-0500, Fax: 330-869-0518

www.sovchem.net

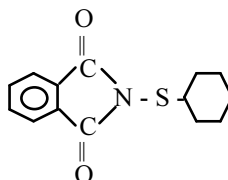
Sovchem® CTP Oiled Powder

Manufacturer: Sovereign Chemical Company

Classification: Scorch inhibitor

Chemical Composition:

Chemical Structure:



Empirical Formula: C₁₄H₁₅NO₂S
Molecular Weight: 261
CA Nomenclature: N-cyclohexylthiophthalimide

Physical Data

Specification Properties

	Value	Test Method
Active substance (CTP) content, % by mass	96.0 minimum	GC
Melting Point (initial)	89.0-92.0 maximum	ASTM D 1519
Melting Point (final)	90.0-94.0 maximum	ASTM D 1519
Heat Loss, % by mass @ 70 °C	0.50 maximum	ASTM D 4571
Ash, % by mass	0.1 maximum	ASTM D 4574
Toluene insoluble, % by mass	0.5 maximum	ASTM D 1766
Butyl Oleate, %	1.5 maximum	QA 5018-1
A-Chloro PVI, %	1.0 maximum	QA 5018-1
Residual Phthalimide, %	2.0 maximum	025 IKA

Typical Properties

Physical Form	Light tan crystalline powder	Visual
Specific gravity	1.33	Typical

Applications

Use: Sovchem® CTP Oiled Powder is a pre-vulcanization inhibitor that increases scorch time without effecting final vulcanizate properties. It inhibits scorch by acting as a MBT scavenger in sulfenamide and thiazole based cure systems. It is not as effective with dithiocarbamate and thiourea type accelerators. It is basically non-staining but may cause slight discoloration in white compounds.

Cure Effect: Even a small addition of Sovchem® CTP Oiled Powder (0.1 to 0.4 phr) to rubber compounds increases their processing safety significantly which allows for increases in processing speeds (extrusion, calendering, etc.).

Packaging and Storage

Packaging: 20kg (44.1 lb) bags.

Shelf Life: 1 year if stored as indicated below.

Storage: Store in unopened original packaging in a cool, dry place.

Specification Date: February 2, 2015 (Supersedes May 3, 2013)