



Chemicals Corp.

Technical Data Sheet

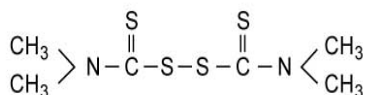
TMTD

Tetramethyl thiuram disulfide

CAS Number: 137-26-8

Molecular weight: 240.41

Molecular formula: C₆H₁₂N₂S₄



PRODUCT INFORMATION

PRODUCT SPECIFICATIONS		GRANULES	OIL POWDER	POWDER
Appearance		White granules	White oil powder	White powder
Melting Point	°C min	142.0	142.0	142.0
Loss on drying	% max	0.40	0.40	0.40
Ash	% max	0.30	0.40	0.40
Residue on sieve (63µm)	% max	-	0.50	0.50
Residue on sieve (150µm)	% max	-	0.10	0.10
Oil content	%	-	1.0-2.0	-
<u>Typical properties</u>				
Density	g/cm ³	1.29		
<u>Packaging</u>				
Bag		25kg (55 lbs)		
Pallet		500kg or 600kg (1102 lbs or 1323 lbs)		

FUNCTION

TMTD can be used as a single accelerator, as a secondary accelerator or as a sulphur donor in most sulphur-cured elastomers.

APPLICATIONS AND PROPERTIES

- TMTD is scorchy and produces fast cure rates.
- Produces an excellent vulcanization plateau, with good heat aging and compression set resistance in sulphurless and EV cure systems.
- Good colour retention is obtained in non-black vulcanization.
- A valuable secondary accelerator of EPDM.
- May be used as a retarder in the vulcanization of polychloroprene rubber with ETU.
- May be used as a bactericide and pesticide.
- TMTD has no odour and is non poisonous.
- May be irritating to the skin and respiratory tract.
- TMTD is soluble in chloroform, acetone and benzene.
- Almost insoluble in carbon tetrachloride and ethyl alcohol and insoluble in water or gasoline.
- TMTD is regulated for use under the following sections of FDA 21 CFR:
 - 175.105 – Components of Adhesives.
 - 177.2600 – Rubber Articles Intended for Repeated Use in Food Contact.

STORAGE

Material should be stored in a tightly closed container in a cool, dry, well ventilated area. The maximum recommended storage life is 2 years when stored under normal conditions.

HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions, please refer to the current Safety Data Sheet. This information is available by request from **SunBoss Chemicals Corp.**

[Revised: November 6, 2014 by kk]