



Chemicals Corp.

DISTRIBUTOR: R.E. CARROLL, INC.  
1570 NORTH OLDEN AVENUE  
TRENTON, NJ 08638-3204 USA  
T: 609-695-6211/800-257-9365  
F: 609-695-0101 www.recarroll.com

## Technical Data Sheet

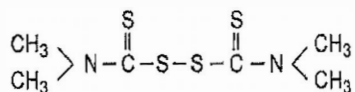
# TMTD

Tetramethyl thiuram disulfide

CAS Number: 137-26-8

Molecular weight: 240.41

Molecular formula:  $C_8H_{12}N_2S_4$



### 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 <sup>3</sup> | 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]*