



# Perkacit<sup>®</sup> TBzTD

**COMPOSITION:** *Tetrabenzylthiuram disulfide CAS#10591-85-2*

Perkacit TBzTD is used as a fast curing primary accelerator or as a secondary accelerator. It is used in polychloroprene as a retarder.

## MAJOR APPLICATIONS AND PROPERTIES

- Perkacit TBzTD has been developed as a safe secondary amine accelerator. N-Nitrosodibenzylamine is not carcinogenic, according to published literature.
- Perkacit TBzTD is a fast curing primary or secondary accelerator in NR, SBR and NBR applications. In EPDM, Perkacit TBzTD is a valuable secondary accelerator (booster).
- In mercaptan modified polychloroprene vulcanized with ETU Perkacit TBzTD acts as a scorch retarder without affecting the cure speed.
- Perkacit TBzTD has longer scorch times when compared to TMTD.
- Perkacit TBzTD is non-staining and non-discoloring.
- Perkacit TBzTD is regulated for use in articles in contact with food as specified under BfR Recommendation XXI, Category 4. Perkacit TBzTD is not regulated for use in FDA food contact applications.

## COMPOUNDING INFORMATION

In NR formulations Perkacit TBzTD is used at the same level as TMTD (2.5 phr) with a somewhat increased amount of sulfur (0.4 instead of 0.1 phr). In general an extra amount of sulfur is added ( $\approx$  10% based on the amount of Perkacit TBzTD) to compensate for the reduced amount of sulfur donated from Perkacit TBzTD as compared to TMTD. The same trend can be observed in SBR and NBR, at a somewhat reduced level.

## HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet. This information sheet can be downloaded from our web site or requested from the nearest Performance Additives office and should be consulted before handling this product.

## STORAGE RECOMMENDATIONS

Store Perkacit TBzTD in single stacked pallets in a cool, dry, well-ventilated area, avoiding exposure of the packaged product to direct sunlight. Double stacking of palletized material and/or exceeding 35°C can result in unusual compaction of product.

## PRODUCT INFORMATION

<b>Perkacit TBzTD</b>	<b>pdr</b>	<b>pdr-d</b>	
Product form	powder	dust suppressed powder	
<b><u>PRODUCT SPECIFICATIONS</u></b>			<u>Test method</u>
Appearance	light cream powder	light cream powder	FF97.5
Assay (%)	96.0	95.0	FJo90.5
Melting point, initial (°C) min.	124	124	FF83.9
Melting point, final (°C)	131-135	131-135	FF83.9
Heat loss (%) max.	0.5	0.5	FGr97.7
Additive (%)	-	1.0-2.0	FGr83.6
Residue on 150 µm sieve (%) max.	0.1	0.1	FF83.8
Residue on 63 µm sieve (%) max.	0.5	0.5	FF83.8
<b><u>TYPICAL PROPERTIES</u></b>			
Density at 20 °C (kg/m <sup>3</sup> )	1400	1400	
Bulk density (kg/m <sup>3</sup> )	230-270	325-365	
Compacted bulk density (kg/m <sup>3</sup> )	330-370	345-385	