Perkacit® 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-Nitrosodibenzyl-amine 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 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 (≈ 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.

PERFORMANCE ADDITIVES

PRODUCT INFORMATION

Perkacit® TBzTD		**pdr**	**pdr-d**	**grs**	
Product form		powder	dust suppressed/ oiled powder	granules	
PRODUCT SPECIFICATIONS					Test method
Appearance		light cream powder	light cream powder	light cream granules	FF97.5
Assay	(%)	96.0	95.0	93.0	FJo90.5
Melting point, initial	(°C) min.	124	124	124	FF83.9
Melting point, final	(°C)	131-135	131-135	131-135	FF83.9
Heat loss	(%) max.	0.5	0.5	0.7	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
TYPICAL PROPERTIES					
Density at 20 °C	(kg/m^3)	1124	1124	1124	
Bulk density	(kg/m^3)	230-270	325-365	430-480	
Compacted bulk density	(kg/m^3)	330-370	345-385	460-520	