



# **Perkacit<sup>®</sup> SDMC**

**COMPOSITION:** *Sodium dimethyldithiocarbamate CAS#128-04-1*

Perkacit SDMC is used as an accelerator in the vulcanization of NR and SBR latices. It is also used as a radical inhibitor in the polymerization of SBR.

## MAJOR APPLICATIONS AND PROPERTIES

- The aqueous solution of Perkacit SDMC is highly suitable for use in NR and SBR latices initiating the vulcanization from 80 °C – 100 °C.
- Perkacit SDMC is used as a radical inhibitor (short-stop) in the final stage of the SBR polymerization.
- It should be noted that in the application of Perkacit SDMC N-nitrosodimethylamine can be formed by the reaction of dimethylamine, a decomposition product, with nitrosating agents (nitrogen oxides).
- Perkacit SDMC is regulated for use in articles in contact with food as specified under FDA 21 CFR 177.2600, 175.105, 176.300 and under BfR Recommendation XXI, Category 1(latex only) and Categories 2-4.

## COMPOUNDING INFORMATION

As an accelerator in NR latex, amounts of 1.0 phr Perkacit SDMC in combination with 2.5 phr sulfur are suggested as a good starting point.

In SBR foamed applications 1.5 phr Perkacit SDMC in combination with 1.0 phr ZMBT and 2.5 phr sulfur are suggested as a good starting point.

When used as a short stopper for SBR typical amounts of Perkacit SDMC are 0.2% (on a 100% activity basis) based on SBR polymer weight.

## 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 SDMC in a cool, dry, well-ventilated area, avoiding exposure of the packaged product to direct sunlight.

PRODUCT INFORMATION

<b>Perkacit SDMC</b>	<b>liq-W41%</b>	
Product form	41% solution in water	
<b><u>PRODUCT SPECIFICATIONS</u></b>		<u>Test method</u>
Appearance	light yellow liquid	FF97.5
Color (Gardner) max.	3	FCol83.3
Assay (%)	40.0-42.0	FJo83.4
pH-Value (1% aqueous solution)	9.5-10.5	FF91.3
<b><u>TYPICAL PROPERTIES</u></b>		
Density at 20 °C (kg/m <sup>3</sup> )	1170-1190	