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MYSTOX CMP

Textile Auxiliary Product Data

Function An insect-resist treatment for wool and wool blends. Mystox CMP provides effective resistance for Wools of New Zealand branded carpets, as well as Woolmark and Woolmark Blend items. It is listed in Wools of New Zealand publication "Carpet Technical Information" and Insect Resist Treatment and The Woolmark Company publication E10 "Specification of Insect Resistant".

Composition A non-ionic, self-emulsifying concentrate containing permethrin.

Description A pale yellow, free-flowing liquid, readily dispersible in water to produce a macro-emulsion.

Permethrin content : 12% wt/wt
Density : 1.00 gm per cm³
Ionic character : Non-ionic

Application Mystox CMP has been designed to be suitable both for use in dyebath application and in continuous application using tape scour machines or the WRONZ Chemset machine. Mystox CMP is also well suited to foaming application using commercially available autofoam equipment.

Dyebath Application

Mystox CMP is suitable for dyebath application to wool in loose stock or yarn form. The product exhibits good exhaustion rates under normal industrial wool dyeing conditions. Mystox CMP should be applied at pH 6.0 or below and should be added to the dyebath after other chemical additions have been made.

Continuous Application

Ideally Mystox CMP should be metered continuously in its concentrated form into the final bowl of a tape scour range or into the mini-bowl of a Chemset machine. Where pre-diluted stock solutions of Mystox CMP are used it is essential to ensure continuous mechanical agitation of the stock solution.

Concentration

1. Wools of New Zealand brand requirements

The Initial Concentration Rate (ICR) is defined in the WNZ 'Carpet Technical Information - Insect Resist Treatment' as the minimum concentration which must be present on the item immediately following manufacture. WNZ defines the Suggested Application Rate (SAR) as the amount suggested for application to achieve the ICR with some safety margin. ICRs and SARs vary according to both the level of protection required and the method of application used.

Dyebath Application

	<u>Rate 1</u>	<u>Rate 2</u>	<u>Rate 3</u>
ICR	0.048%	0.103%	0.250%
SAR	0.053%	0.113%	0.275%

Continuous Application

	<u>Rate 1</u>	<u>Rate 2</u>	<u>Rate 3</u>
ICR	0.058%	0.125%	0.300%
SAR	0.070%	0.150%	0.360%

2. Woolmark, Woolmark Blend and Wool Blend requirements

The minimum percentages of Mystox CMP present on the item following cleaning and light fastness testing to Woolmark TM28 are defined in The Woolmark Company E10 - 'Specification of Insect Resistant'. The minimum percentage varies according to the level of protection required.

<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Level 4</u>	<u>Level 5</u>
0.029%	0.029%	0.063%	0.150%	0.063%

Handling

Wear suitable gloves and eye/face protection when handling.

Do not discharge into drains or the environment. Disposal should be in accordance with local, state or national legislation.

This product will deteriorate if frozen.

Appropriate storage conditions should therefore be arranged.

First aid: Show the label, the packaging or the instructions when obtaining specialist help.

For further information see product Safety Data Sheet.