

2015-1381
2015-08-18

(Label)

LANXESSPREVENTOL CMK 40

Antimicrobial Solution

For use as a material preservative providing biostatic control of microorganisms in nonfood contact materials and products.

INDUSTRIAL

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: 4-chloro-3-methylphenol 40%
(present as sodium salt)

REGISTRATION NO. 27426 PEST CONTROL PRODUCTS ACT

DANGER CORROSIVE TO EYES AND SKIN

CAUTION POISON

POTENTIAL SKIN SENSITIZER

NET CONTENTS: 25 KG

LANXESS CORPORATION
111 RIDC PARK WEST DRIVE
PITTSBURGH PA 15275
UNITED STATES

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PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. DANGER: Corrosive to eyes and skin. Causes skin and eye irritation. May produce severe burns. Do not get into eyes, on skin or on clothing. Potential skin sensitizer. May be fatal if swallowed, inhaled or absorbed through skin.

Avoid spray mist. Solution of Preventol CMK can cause permanent eye damage. Avoid inhaling dust when opening bags or drums. Wash thoroughly after handling. Personnel Protective Gear Required: Wear protective eyewear (goggles or face shield), chemical-resistant coveralls over long-sleeved shirt and long pants, and chemical-resistant gloves and footwear during handling, clean up, and repair activities, and when handling treated metalworking fluid concentrates.

USE LIMITATION: Waste material from leather production contaminated with Preventol CMK Sodium Salt cannot be used in the production of food or feeds.

FIRST AID: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. If swallowed, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.

ENVIRONMENTAL PRECAUTIONS: This product is toxic to fish. Do not contaminate any body of water by cleaning equipment or disposal of wastes. Do not discharge product into any water courses, including lakes, streams, ponds and sewer systems.

STORAGE: Do not store near heat or open flame. Store in cool dry location.

FOR THE DISPOSAL OF EMPTY CONTAINERS:

1. Empty the container thoroughly by shaking and add the additional product to the formulation vessel.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of empty container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory

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agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions

on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE: To be used only in the production of preservatives, for example; glues and adhesives, joint cements, polymer dispersions and emulsions, leather products, lubricoolants (metalworking fluids), printing fluids and materials in the building materials (concrete additives etc.) coating, paper, textile, photo and oil industries, and additional materials.

The exact concentration of LANXESS Preventol CMK 40 material preservative will vary with the

composition of the material to be protected. In order to determine the optimum use level contact your LANXESS representative. Microbial bioassay can be used to determine the optimum level within the registered concentration range for material preservative uses. This level may vary depending upon the nature of the manufacturing process, type of organism present and the properties of the material being preserved. This product will provide biostatic control of microorganisms in materials and products.

Where possible apply this product utilizing closed system technology. Follow all precautionary measure required for open systems.

Add LANXESS Preventol CMK 40 to the material at the rates listed in the accompanying brochure, based on the total weight of the material requiring protection. If possible identify and minimize the source of any bio-contamination. Periodic cleaning of equipment and good housekeeping practices will help reduce sources of bio-contamination and may reduce the amount of pesticide required.

The preservative must be evenly distributed throughout the material, e.g. Adhesive etc.

Preventol CMK-Na 40 can be incorporated into the make up water during grinding or mixing.

For best results the preservative should be dispersed homogenously throughout the material being preserved. Losses of active ingredient may occur at elevated temperatures.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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(Brochure)

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The preservative must be evenly distributed throughout the material, e.g. Adhesive etc.

Preventol CMK-Na 40 can be incorporated into the make up water during grinding or mixing.

For best results the preservative should be dispersed homogenously throughout the material being preserved. Losses of active ingredient may occur at elevated temperatures.

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APPLICATION RATES AND INSTRUCTIONS FOR INCORPORATING PREVENTOL CMK 40 INTO VARIOUS MATERIALS

ADHESIVES AND GLUES:	EFFECTIVE CONCENTRATION
Bone glues	0.25 - 0.38%
Skin glues	0.38 - 0.62%
Fish glues	0.38 - 0.62%
Leather glues	0.38 - 0.62%
Gelatin based glues	0.25 - 0.50%
Casein containing adhesives	0.50 - 0.75%
Other animal glues	0.25 - 0.62%
Starch based glues (liquid)	0.25 - 0.38%
Starch based glues (solid)	0.50 - 2.5%
Dextrin adhesives	0.13 - 0.25%
Hydroxy ethyl cellulose adhesives	0.13 - 0.25%
Methyl cellulose adhesives	0.13 - 0.25%
Other plant based adhesives	0.13 - 0.62%
Polyvinyl acetate adhesives	0.13 - 0.62%
Polyvinyl alcohol adhesives	0.13 - 0.62%
Acrylic adhesives	0.13 - 0.62%
Styrene butadiene (SBR latex) adhesives	0.13 - 0.62%
Other adhesive emulsions	0.13 - 0.62%
Gum arabic and similar gums	0.25 - 0.38%
Rosin paper sizes	0.25 - 0.62%

The weight of Preventol CMK 40 Preservative to be used is based on the total weight of the adhesive formulation. The preservative should be incorporated into the adhesive formulation just following the initial addition of water. The adhesive formulation should be stirred to ensure homogeneous distribution.

Preventol CMK 40 Preservative should be added toward the end of the thickening in order to minimize any losses of active substance, and mixed until homogeneous. The dissolving process can be accelerated by gentle heating. The preservative must be evenly distributed throughout the adhesive or glue to be preserved in order to achieve satisfactory results.

JOINT CEMENTS:	EFFECTIVE CONCENTRATION
Vinyl latex based	0.19 - 0.50%
Protein based	0.19 - 0.50%
Other joint cement materials	0.19 - 0.50%

The weight of Preventol CMK 40 Preservative to be used is based on the total weight of the joint cement formulation. The preservative should be incorporated into the joint cement formulation just following the initial addition of water or other liquid components sufficient to disperse the preservative. To ensure homogeneous distribution, good stirring is recommended.

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POLYMER DISPERSIONS AND EMULSIONS:	EFFECTIVE CONCENTRATION
Acrylic	0.13 - 0.50%
Polyvinyl acetate (PVA)	0.13 - 0.50%
Vinyl/Acrylic	0.13 - 0.50%
Styrene Butadiene (SBR Latex)	0.13 - 0.50%
Other polymer emulsions	0.13 - 0.50%

Preventol CMK 40 Preservative should be added immediately after the preparation of the polymer dispersion or emulsion during the cooling process. Losses of active ingredient caused by elevated temperatures should be taken into account and avoided by suitable measures.

LEATHER	EFFECTIVE CONCENTRATION
Pickle solutions and pickled hides	0.38 - 0.62%
Chrome leather (calculated on pelt weight)	0.25 - 0.50%
Leather pasting adhesives	0.13 - 0.25%
Leather pigment finishes	0.50 - 1.00%

Preventol CMK 40 Preservative will, in the case of chrome leather, provide effective protection against mold attack. Finished vegetable-tanned leathers and chrome leathers may also be protected against mold attack by a treatment on both sides of the material with a 0.50 - 1.00 % solution of Preventol CMK 40 Preservative.

LUBRICOOLANTS AND MINERAL OIL BASED PRODUCTS:	EFFECTIVE CONCENTRATION
Metalworking Fluids - Mineral Oil Based	
Metalworking Fluids (concentrates)	2.50 - 7.50%
Metalworking Fluids (ready for use)	0.13 - 0.50%
Metalworking Fluids - Non-Mineral Oil Based	
Metalworking Fluids (concentrates)	2.50 - 7.50%
Metalworking Fluids (ready to use)	0.13 - 0.50%

Preventol CMK 40 Preservative can be incorporated into the original concentrate of metalworking fluids by adding the preservative under stirring. The compatibility of the fluid to be preserved and the preservative should be evaluated before this method is attempted. Preventol CMK 40 Preservative is equally suitable for tank side addition (maintenance). To achieve maximum distribution within the ready-to-use dilution of the metalworking fluid, the preservative should be dosed (at a point) in the system under conditions which ensure good circulation.

MATERIALS IN THE PRINTING INDUSTRY:	EFFECTIVE CONCENTRATION
Inks	0.13 - 0.50%
Fount solutions	0.13 - 0.50%
Printing pastes	0.50 - 0.75%

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Other printing materials and auxiliaries 0.13 - 0.75%
Preventol CMK 40 Preservative is incorporated into the products to be preserved. Stirring is recommended to achieve homogeneous distribution of the preservative.

MATERIALS IN THE BUILDING INDUSTRY:	EFFECTIVE CONCENTRATION
Bitumen emulsions	0.38 - 1.00%
Concrete additives	0.38 - 1.00%
Other building materials and auxiliaries	0.38 - 1.00%

Preventol CMK 40 Preservative can be added directly to neutral or acid concrete additives. In this pre-dissolved form Preventol CMK 40 Preservative can easily be incorporated into the concrete additives in such a way that preservative is homogeneously distributed throughout the product.

MATERIALS IN THE COATINGS INDUSTRY:	EFFECTIVE CONCENTRATION
Dyestuff paste, knifing fillers and plastic putty	0.25 - 38%
Casein based coatings	0.75 - 1.00%
Paints	0.13 - 1.00%
Other auxiliaries and coating materials	0.13 - 1.00%
Synthetic resin dispersions	0.13 - 0.62%

Preventol CMK 40 Preservative can be incorporated directly into pigments and fillers for coatings applications. For best results, the preservative should be dispersed homogeneously throughout the paint material. Depending on the ingredients, discoloration may occur and should be evaluated before conducting lab trials.

MATERIALS IN THE PAPER INDUSTRY:	EFFECTIVE CONCENTRATION
Rosin paper sizes	0.13 - 0.38%
Filler suspensions and coating compounds	0.13 - 0.50%
Starch slurries	0.25 - 0.75%
Pigment slurries	0.13 - 0.75%
Other materials and auxiliaries	0.13 - 0.50%

Preventol CMK 40 Preservative can be metered directly into the products to be preserved following the concentrations as indicated above. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the products. Stir well to achieve homogeneous distribution of the preservative. Losses of active ingredient at elevated temperatures should be taken into account and avoided by suitable measures.

MATERIALS IN THE TEXTILE INDUSTRY:	EFFECTIVE CONCENTRATION
Spinning preparations	0.13 - 0.38%
Sizes and finishing agents	0.25 - 0.38%
Yarn humidifiers	0.13 - 0.25%

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Printing thickeners (solid)	0.13 - 5.00%
Printing thickeners (liquid)	0.25 - 0.38%
Other materials and auxiliaries	0.13 - 0.50%

Preventol CMK 40 Preservative is added to the thickener solutions to be preserved. For fast and homogeneous distribution of the preservative, stirring is recommended.

MATERIALS IN THE PHOTO INDUSTRY:	EFFECTIVE CONCENTRATION
Gelatin	0.13 - 0.50%
Other materials and auxiliaries	0.13 - 0.50%

MATERIALS IN THE OIL INDUSTRY:	EFFECTIVE CONCENTRATION
Biopolymers, solid (xanthan, starch, galactomannan, etc)	1.25 - 5.00%
Biopolymers, liquid (drilling muds)	0.13 - 0.50%
Other materials and auxiliaries	0.13 - 0.50%

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ADDITIONAL MATERIALS:	EFFECTIVE CONCENTRATION
Polishing and wax material	0.25 - 1.00%
Protein solutions	0.50 - 0.75%
Cleaning solutions, detergents	0.13 - 0.50%
Ceramic glazes	0.25 - 0.50%
Fire extinguishing materials	0.25 - 0.75%
Materials and auxiliaries in the leather industry	0.25 - 0.75%

The concentration of Preventol CMK 40 Preservative as indicated is based on total weight of the products to be preserved. For satisfactory results, the preservative must be incorporated into the make-up water at the beginning of the production and/or generally by stirring at every appropriate production stage.

MINIMUM INHIBITION CONCENTRATIONS OF PREVENTOL CMK 40 Preservative
Microorganisms Minimum Inhibition Concentration (mg/L)

Bacteria	
Aeromonas Punctata	500
Bacillus subtilis	375
Escherichia coli	625
Leuconostoc mesenterioides	500
Proteous vulgaris	500
Pseudomonas aeruginosa	2000
Pseudomonas fluorescens	2000
Staphylococcus aureus	500

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Desulfovibrio desulfuricans	88
Formaldehyde-resistant bacteria	625

Yeast

Candida albicans	500
Torula rubra	125

Molt Fungi

Aspergillus flavus	250
Aspergillus niger	250
Aureobasidium pullulans	75
Chaetomium globosum	200
Cladosporium herbarum	500
Coniophora puteana	250
Paecilomyces variotii	500
Penicillium citrinum	250
Penicillium glaucum	250
Trichophyton pedis	250
Trichoderma viride	350