

LANXESS

Energizing Chemistry

Product Information

Preventol[®] CMK Preservative

p-chloro-m-cresol

EPA REGISTRATION NO. 39967-12

USES

For the preservation of adhesives, glues, joint cements, polymer dispersions and emulsions, metalworking/cutting fluids, dyes, industrial lubricants, pigments and filler suspensions, materials in the building industry, paint and coatings, paper, textile, photo, oil industries, and leather at all stages of production.

CHEMICAL AND PHYSICAL DATA*

Active ingredient	99.9% 3-methyl-4-chlorophenol (chlorocresol, p-chloro-m-cresol)
Product description	Colorless to white pellets

SPECIFICATION

The specification parameters can be found in the current product specification.

CHARACTERISTIC DATA*

Density	1.34g/cm ³
Bulk Density	570 to 670 kg/m ³
Vapor Pressure (20°C) (25°C)	<0.0014 Pa 0.006 Pa
pH (0.4%)	5.8
Melting Point (°C)	63 - 65
Boiling point (1013 HPa)	242°C
Flash Point (Closed cup)	118°C (244.4°F)
Ignition Temperature	590°C
pH stability range	~1-14

SOLUBILITY OF ACTIVE INGREDIENT IN % BY WT.

Ethanol	500 g/l
10%NaOH	~320 g/l
Toluene	~300 g/l
Water	~4 g/l

*These items are provided as general information only. They are approximate values and are not considered to be part of the product specifications.

STORAGE

Product should be stored in the original sealed package. At storage temperature above appropriately 35°C or higher, the product tends to become lumpy. When exposed to air, light, moisture or heat, the product may turn slightly red. Change in the color and consistency of product does not affect the efficacy of the product. The shelf life of Preventol® CMK Preservative is at least 24 months.

APPLICATION

It is recommended that the Preventol® CMK Preservative be pre-dissolved (e.g. in alcohol, glycol or caustic soda solution) to ensure the product is evenly distributed in the finished formulation. Preventol® CMK Preservative can also be added in the form of an alkaline stock solution. A stock solution containing 30% PREVENTOL® CMK Preservative can be formulated by stirring 1 kg Preventol® CMK Preservative into 1.85 liters of water and 0.5kg 50% caustic soda solution until it dissolves. Dissolving can be accelerated by gently heating the liquid. The steam-volatility of PREVENTOL® CMK Preservative must be taken in account in the case of certain applications (e.g. when drying glue slurries which contain Preventol® CMK Preservative)

MATERIAL PRESERVATION

In the production of dry flues, Preventol[®] CMK Preservative should be added toward the end of the thickening stage in order to minimize any losses of the active ingredient. For polymer dispersion, the Preventol[®] CMK Preservative should be added immediately following the polymer dispersion or emulsion stage of the manufacturing process during the cooling process.

For leather applications, Preventol[®] CMK Preservative may be dissolved in five times the amount of alcohol and then stirred into pickle solution. Chrome leather can be preserved by stirring Preventol[®] CMK Preservative and caustic soda into basifying solution for optimum incorporation. Preventol[®] CMK Preservative is oil soluble and can be easily dissolved into the fat liquor and added directly to the drum.

For textile applications, Preventol[®] CMK Preservative should be incorporated into the dry thickener. Grinding is required. Preventol[®] CMK Preservative could also be added to the ready to use thickener solution.

The EPA approved dosage levels are provided in the chapter "Direction for Use", but variables such as pH, temperature, initial microbial count or intended storage time of the finished product to be preserved should be taken into consideration.

To obtain reliable and reproducible results, homogeneous distribution in the materials to be protected must be ensured by taking suitable measures in production (stirring, agitating, etc.)

MATERIAL COMPATIBILITY

Preventol[®] CMK Preservative is compatible with high quality stainless steel. In the case of plastics, Polyethylene (PE), Polypropylene (PP), Teflon (PTFE) and FRC Atlac 382 are compatible with Preventol Preservative. Viton and EPDM 75 have shown good compatibility with the Preventol[®] CMK Preservative.

As with any product, use of the products mentioned in this publication in a given application must be tested (including field testing, etc.) by the user in advance to determine suitability.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling.

The following guidance is given as an approximation for each use pattern, but field-testing is recommended to achieve optimum effectiveness.

Material Preservation

Application	Dosage Level **
Adhesives and Glues	0.05-1.00%
Joint Cements (Not for use in State of CA)	0.075-0.20%
Polymer Dispersion and Emulsions (Not for use in State of CA)	0.05-0.20%
Leather (Not for use in State of CA)	0.05 -0.40%
Lubricoolants and Mineral Oil Based Products:	
Concentrates	1.00-3.00%
Ready for Use	0.05-0.30%
Materials in the Printing Industry (Not for use in State of CA)	0.05 -0.30%
Materials in the Building Industry	0.15 - 0.40%
Materials in the Coatings Industry (Not for use in State of CA)	0.05 -0.40%
Materials in the Paper Industry (Not for use in State of CA)	0.05-0.30%
Materials in the Textile Industry (Not for use in State of CA)	0.05-2.00%
Materials in the Photo Industry (Not for use in State of CA)	0.05-0.20%
Materials in the Oil Industry	0.05 - 2.00%
Additional Materials (Not for use in State of CA)	
Polishing and wax material	0.10-0.40%

Protein solutions	0.20-0.30%
Cleaning solutions, detergents	0.05-0.20%
Ceramic glazes	0.10-0.20%
Fire extinguishing materials	0.10-0.30%
Materials and auxiliaries in leather industry	0.10-0.30%
Cosmetic and toiletry raw materials	0.10-0.30%
Industrial lubricants	0.10-1.00%

****For complete application and dosage information, refer to the Preventol[®] CMK Preservative EPA label.**

Registration / Approval / Recommendation***

EPA Registration No. 39967-12

Up to date information on the registration status of our products can be obtained from:

LANXESS Corporation
Business Unit Material Protection Products (MPP)
Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112

*****Regulatory Compliance Information:** Some of the end uses of the products described in this bulletin must comply with applicable regulations, such as the FDA, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative or the LANXESS Regulatory Affairs Manager in Pittsburgh, PA.

Precautions

Preventol CMK Preservative is supplied in the form of pellets. Contact of the product with the skin and the inhalation of dust should be avoided. The precautions generally recommended for handling chemicals should be observed, e.g. wearing of protective clothing, safety goggles, protective gloves and dust mask.

If the product comes into contact with the skin, the affected area should be washed immediately with large amounts of a polyethylene glycol P 300 and ethanol mixture (2:1) and then with soap and plenty of water; splashes in the eyes should be rinsed out immediately with plenty of water. If irritation persists, medical attention should be obtained. Soiled clothing should be changed at once.

The current safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety, toxicity and ecology.

USE BIOCIDES SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

Health & Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your LANXESS Corporation representative or contact the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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Note: The information contained in this bulletin is current as of March 2019. Please contact LANXESS Corporation to determine if this publication has been revised.