



## Product Information

# Preventol<sup>®</sup> PM 310

Solution of Bronopol and MIT



## Preventol® PM 310

## EPA Registration No.39967-146

### Uses

For the control of bacteria and fungi in Industrial processes and water systems, air washing systems, pulp and paper mill systems, building materials, adhesives, tackifiers and sealants, paints, coating and stains, pigments, dyes and filler suspension, consumer, household, and institutional products, inks and fountain solutions, concrete admixtures, metalworking fluids, and water based agricultural pesticides concentrates.

### Chemical and physical data

Active ingredient:	Solution of 2-Bromo-2-nitro-propane-1,3 diol and 2-Methyl-3(2H)-isothiazolinone
Product description:	Clear, to pale yellow solution

### Specification

The specification parameters can be found in the currently valid product specification.

### Characteristic data\*

Density (68 °F / 20 °C):	1.091 g/ml
Viscosity, kinematic (68 °F / 20 °C): (104 °F / 40 °C)	1.42 mm <sup>2</sup> /s 0.893 mm <sup>2</sup> /s
pH (1 %):	4.86
Solubility in water:	soluble

\*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. If stored appropriately, the Preventol® PM 310 has a shelf life of 24 months.

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### Spectrum of activity

Minimal Inhibitory Concentration (MIC) in ppm of Preventol® PM 310 in agar medium\*\*

\*\* MIC Values are from laboratory testing.

<b>Bacteria</b>	<b>MIC (ppm)</b>
<i>Enterobacter aerogenes</i>	150
<i>Escherichia coli</i>	150
<i>Klebsiella pneumoniae</i>	100
<i>Proteus vulgaris</i>	100
<i>Pseudomonas aeruginosa</i>	100
<i>Serratia marcescens</i>	100

<b>Yeasts</b>	<b>MIC (ppm)</b>
<i>Candida albicans</i>	750

<b>Mold</b>	<b>MIC (ppm)</b>
<i>Aspergillus niger</i>	750
<i>Penicillium pinophilum</i>	750

### Application

Preventol® PM 310 is a water soluble solution and can easily be incorporated into a ready for use formulation.

## Preventol® PM 310

### Material Compatibility

Preventol® PM 310 is compatible with SS 316 L and SS 316 Ti. In the case of plastics, Polyethylene (PE), Polypropylene (PP), and PVC are compatible with Preventol® PM 310. LDPE and HDPE has shown good compatibility with the Preventol® PM 310.

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 labeling.

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

#### Industrial Process and Water Systems

Application	Dosage % (ppm)***
Industrial Recirculating Water Cooling Towers - Slug Feed Initial Dose Subsequent Dose	0.017 - 0.065 % (170 - 650 ppm) 0.017 - 0.065 % (170 - 650 ppm)
Industrial Recirculating Water Cooling Towers - Continuous Feed Initial Dose Subsequent Dose	0.017 - 0.065 % (170 - 650 ppm) 0.017 - 0.065 % (170 - 650 ppm)
Air Washing Systems - Slug Feed Initial Dose Subsequent Dose	0.017 - 0.065 % (170 - 650 ppm) 0.009 - 0.012 % (90 - 120 ppm)
Air Washing Systems - Continuous Feed Initial Dose Subsequent Dose	0.017 - 0.065 % (170 - 650 ppm) 0.017 - 0.065 % (170 - 650 ppm)
Closed Loop Systems Shock Dose	0.0167 - 0.066 % (167-660 ppm)
Pulp and Paper Mill Systems	0.013 - 0.330 lbs/ton of pulp or paper (dry basis)
Pulp and Paper Mill Bulk Paper/Paper Additives	0.0340-0.133 % (340-1330 ppm)

\*\*\*For complete dosage ranges see the EPA Label for Preventol® PM 310

## Preventol® PM 310

### Material Preservation

Application	Dosage % (ppm)***
Adhesives	0.035-0.5 % (350 - 5000 ppm)
Paints, Coatings and Stains	0.035 - 0.3 % (350 - 3000 ppm)
Pigments, Dyes and Filler Suspensions	0.020 - 0.333 % (350 - 3330 ppm)
Consumer, Household and Institutional Products	0.067 - 0.333 % (670 - 3330 ppm)
Building Material Preservation	0.05 - 0.3 % (500 - 3000 ppm)
Fountain Solutions - Shock Dose	0.034 - 0.067 % (340 - 670 ppm)
Ink - Final Formulation Volume	0.067 - 0.333 % (670 - 3330 ppm)
Concrete Admixtures	0.05 - 0.5 % (500 - 5000 ppm)
Metalworking Fluids - Tankside	0.05 - 0.5 % (500 - 5000 ppm)
Water Based Agricultural Pesticide Concentrates	0.067 - 0.333 % (670 - 3330 ppm)

\*\*\*For complete dosage ranges see the EPA Label for Preventol® PM 310

### Registration / Approval / Recommendation\*\*\*\*

EPA Registration No. 39967-146

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

**LANXESS Corporation**  
**Business Unit Material Protection**  
**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

## Preventol® PM 310

### 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.

### Precautions

Preventol® PM 310 is supplied as a liquid solution. Contact of the product with the skin and the inhalation 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 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.

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.

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

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LANXESS Corporation • 111 RIDC Park West Drive • Pittsburgh, PA 15275 • Phone: 1-800-LANXESS • [www.mpp.us.lanxess.com](http://www.mpp.us.lanxess.com)  
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**LANXESS Corporation**  
Material Protection Products  
111 RIDC Park West Drive  
Pittsburgh, PA 15275  
Phone: 1-800-LANXESS  
[www.mpp.us.lanxess.com](http://www.mpp.us.lanxess.com)