

## Product Information

# Preventol® D 7 LT

Liquid preparation of 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT) and 2-Methyl-4-isothiazolin-3-one (MIT)



**Preventol® D 7 LT****EPA Registration No. 39967-93****Uses**

For industrial use as a preservative to inhibit the growth of bacteria, fungi, and yeast in polymer emulsions, photoplate processing, fountain solutions & ink components, metalworking fluids, adhesives, aqueous compositions, and pigment & mineral slurries. Designed for coagulation sensitive products which are sensitive to multivalent salts.

**Chemical and physical data**

Active ingredient:	approx. 1.1 % 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT) approx. 0.4 % 2-Methyl-4-isothiazolin-3-one (MIT)
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**Specification**

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

**Characteristic data\***

Density (68 °F / 20 °C):	1.018 - 1.030 g/cm <sup>3</sup>
Viscosity:	dynamic 1.09 mPa s
Boiling point:	approx. 210 °F / 99 °C
pH:	2 - 4

\*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.

Since Preventol® D 7 LT is an aqueous solution, appropriate measures should be taken to ensure temperature does not exceed 104 °F/ 40 °C and does not freeze during the transport and storage.

**Preventol® D 7 LT**

**Spectrum of activity**

Minimal Inhibitory Concentration (MIC) in ppm of Preventol® D 7 LT\*\*

<b>Bacteria</b>	<b>MIC (ppm)</b>
<i>Alcaligenes faecalis</i>	150 - 300
<i>Bacillus subtilis</i>	150 - 600
<i>Enterobacter aerogenes</i>	300 - 600
<i>Pseudomonas aeruginosa</i>	300 - 600
<i>Pseudomonas fluorescens</i>	150 - 600
<i>Escherichia coli</i>	300 - 600
<i>Klebsiella pneumonia</i>	600
<i>Proteus vulgaris</i>	300 - 600
<i>Salmonella cholerasuis (typhi)</i>	600
<i>Serratia marcescens</i>	600

<b>Fungi</b>	<b>MIC (ppm)</b>
<i>Aspergillus niger</i>	600
<i>Aureobasidium pullulans</i>	150 - 300
<i>Chaetomium globosum</i>	600
<i>Pencillium funiculosum</i>	300 - 760
<i>Rhizopus stolonifer</i>	300 - 760
<i>Candida albicans</i>	300 - 600
<i>Saccharomyces cerevisiae</i>	150 - 600

\*\* MIC values are from both literature and laboratory testing.

## Preventol® D 7 LT

### Application

Preventol® D 7 LT is a microbicide containing a mixture of isothiazolinones.

Preventol® D 7 LT is readily incorporated into formulations and is compatible with surfactants and emulsifiers regardless of their ionic nature. Preventol® D 7 LT will not adversely affect product physical properties or performance and should not impart odor or color to most final products.

Preventol® D 7 LT can be incorporated at any stage of the production process but is best to add it in the initial stage.

However, if higher temperatures (>104 °F / 40 °C), the presence of highly reactive components, or pH values >9 occur during the manufacturing process the product should be added at the end of the process or to the finished product below critical conditions. In this case, take care to distribute the preservative uniformly in order to ensure homogeneous mixture of the product in the water. Since Preventol® D 7 LT has a low viscosity, the product can be added directly or pre-dissolved in water.

The use of the monovalent stabilized Preventol® D 7 LT in an aqueous formulation does not generally cause any undesirable stability issues. Even sensitive polymer emulsions, which tend to coagulate when multivalent metal salts are added to the formulation, can be easily preserved with the Preventol® D 7 LT.

The approved dosage level ranges are provided in the chapter "Directions for Use" further below, but variables such as pH, Temperature, redox potential, initial microbial count and intended storage time of the product to be preserved should be taken into account.

### Material Compatibility

Preventol® D 7 LT is compatible with high quality stainless steel. Compatibility tests are recommended for other metallic materials. Plastic materials like, PE, HDPE, and PTFE are compatible and suitable for handling and storage of Preventol® D 7 LT.

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

## Preventol® D 7 LT

### 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.

Application	Dosage Levels
Photoplate Processing , Fountain Solutions and Ink Components	0.10 - 0.30 %
Metalworking Fluids Tankside	0.10 - 0.30 %
Pigment and Mineral Slurries	0.0425 - 0.1675 %
Polymer Emulsions	0.0425 - 0.330 %
Adhesives and Tackifiers	0.0425 - 0.1675 %
Preservative for aqueous compositions	0.05 - 0.33 %

Not for use in the State of California

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

EPA Registration No. 39967-93

Canada: All ingredients are listed in CEPA/DSL

**\*\*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® D 7 LT

### 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® D7 LT is supplied as a clear low viscosity solution. When handling Preventol® D7 LT, general recommendations for handling any chemicals should be observed, e.g. wearing of protective clothing, safety goggles and protective gloves. Skin contact and inhalation of vapors should be avoided. If the product comes into contact with the body, the affected area should be washed immediately with large amounts of soap and water (e.g. product that has been splashed in the eyes should be rinsed out immediately with plenty of water). If irritation persists, the affected individual should obtain medical attention. Contaminated clothing should be removed and properly cleaned separately or disposed.

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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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