

## Product Information

# Preventol® A 6 Preservative

End-use biocide for preservation of Coatings, Paints, and Building Materials

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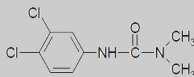
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**Preventol® A 6 Preservative****EPA Registration No. 39967-90****Uses**

Biocide for use in Coatings, Paints, and Building Materials

**Chemical and physical data\***

Active ingredient:	approx. 98.4 % Diuron 3-[3,4-dichlorophenyl]-1,1-dimethylurea
Product description:	powder
Chemical formula:	$C_9H_{10}Cl_2N_2O$
CAS number:	330-54-1
Chemical structure:	

**Specification**

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

## Preventol® A 6 Preservative

### Characteristic data\*

pH-value:	approx. 7.0 (1 %)
Bulk density:	approx. 17.5 to 23.1 lb/ft <sup>3</sup> / 280 to 370 kg/m <sup>3</sup>
Vapor pressure (77 °F / 25 °C):	approx. 2.0 • 10 <sup>-9</sup> hPa
Initial melting point:	approx. 309 - 318 °F / 154 - 159 °C
Relative self-ignition temperature:	no self ignition up to a temperature of 753 °F / 401 °C (EEC A.16)
Solubility:	water: 0.0285 - 0.029 g/l acetone: 47.2 g/l xylene: 1.47 g/l butyl glycol: 62 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

Preventol® A 6 Preservative hydrolyses in strong acids and alkalis. At temperatures above 680 °F / 200 °C beginning pyrolysis. If correctly stored and kept in the original sealed container, the shelf life is at least 24 months.

## Preventol® A 6 Preservative

### Spectrum of activity

#### Minimal inhibitory concentration (MIC) in ppm of Preventol® A 6 Preservative

Algae	MIC (ppm)
<i>Desmodesmus communis</i>	0.1
<i>Nostoc commune</i>	0.1
<i>Phormidium spec.</i>	0.01
<i>Phormidium tergestinum</i>	0.01
<i>Scenedesmus vacuolatus</i>	0.01
<i>Stichococcus bacillaris</i>	0.1
<i>Trentepohlia anulata</i>	1

### Application

Preventol® A 6 Preservative is a broad-spectrum algicide which is highly effective against algae found on the surface of coatings, e. g. exterior paints and plasters. It is non-volatile and not light-sensitive, has low solubility in water, good toxicological properties and low ecotoxicity in the matrix. These favorable properties, combined with the effectiveness of the product, make it ideal for use in exterior paints and plasters.

Since coatings for exterior applications are subject to both algal attack and fungal infestation, Preventol® A 6 Preservative is prevalently combined with an effective fungicide. Possible fungicidal combination partner is Preventol® MP 400-D containing the active substance 3-iodo-2-propenylbutyl carbamate (IPBC).

The excellent effectiveness of Preventol® A 6 Preservative generally allows its implementation at low dosages. A homogeneous incorporation into the coating to be protected is indispensable in order to ensure a reliable and uniform action. Typically, formulations containing Preventol® A 6 Preservative do not influence the color shade of a coating.



## **Preventol® A 6 Preservative**

To ensure homogeneous distribution in the finished product (particularly in paints, plasters/renders etc.), Preventol® A 6 Preservative can be added in an early stage of the production process, e. g. by adding the preservative together with the pigments and fillers into the grind phase of the coating making operation or near the end of the manufacturing process at a point where good agitation is achieved and after the final pH adjustment is made.

Apply good agitation to ensure an even distribution of the active ingredient in the product to be protected which is necessary to guarantee a reliable biocidal effect. Moreover, LANXESS in-can preservatives should be additionally incorporated into the aq. formulation to inhibit microbial degradation during shelf storage.

In cases, where the addition of Preventol® A 6 Preservative in an early production stage is not favored, it might also be added at the end of production process, provided it is homogeneously pre-dispersed in water and/or glycols together with an appropriate wetting and dispersing agent beforehand.

It is recommended to conduct preliminary tests on compatibility and biological effectiveness for each new application.

The approved dosage levels ranges are provided in the chapter "Directions for use" further below, but variables such as pH, temperature, initial germ count or intended storage time of the product to be preserved should be taken into account.

## **Directions for use**

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

This product must be used in a way that will prevent contact with workers and other persons.

Application levels presented below are laboratory evaluations and are typical for the use area indicated. The application ranges are based on a weight/weight of Preventol® A 6 Preservative.

Preventol® A 6 Preservative should be added to paint, coating or other formulations near the end of the manufacturing process at a point where good agitation is achieved and after the final pH adjustment is made.



## Preventol® A 6 Preservative

Paints	0.025 - 0.150 %
Stains	0.015 - 0.240 %
Masonry coatings	0.025 - 0.150 %
Roof coatings	0.050 - 0.250 %
Caulks	0.050 - 0.225 %
Sealants	0.050 - 0.225 %
Stuccos	0.050 - 0.225 %
Joint cements	0.050 - 0.225 %
Plasters	
Mineral plasters	0.025 - 0.150 %
Silicon resin plasters	0.020 - 0.500 %

## Registration / Approval / Recommendation\*\*

EPA Registration No. 39967-90

**\*\*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® A 6 Preservative**

### **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.

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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 November 2012. Please contact LANXESS Corporation to determine if this publication has been revised.

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