



Product Information

PREVENTOL® A 12-TK 50

Manufacturing use fungicide for formulation of preservatives for wood and other materials

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Page 1 of 6: This document contains important information and must be read in its entirety.

PREVENTOL® A 12-TK 50**Overview**

PREVENTOL® A 12-TK 50 is for the manufacture of aqueous and solvent formulations for preservation of wood composites, wood in above-ground and in-ground applications, leather, films, glues, adhesives, and metalworking fluids.

Chemical and Physical Data

Active ingredient:	approx. 50 % Propiconazole
Chemical Name:	(+/-)-(cis+trans)-1-[(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl]-1H-1,2,4-triazole
Product description:	yellow to brown clear liquid

Characteristic data*

Density (20 °C):	1.09 - 1.13 g/cm ³
Vapor pressure (25 °C):	5.6 x 10 ⁻³ hPa
Boiling point / boiling range:	187 - 192 °C
Flash point:	63 °C

*Characteristic data are provided as general information only. They are approximate values and are not considered part of the product specification.

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Solubility of active ingredient (20 °C, % by weight)

Propylene glycol	> 50
2-propanol	> 50
Ethylene glycol	26
White spirit (30 % aromatic content as xylene)	> 10
Hexane	approx. 4.7
Water	approx. 100 ppm

Solubility data are provided as general information only. They are approximate values and are not considered part of the product specification.

Applications

Provides effective protection against rotting fungi and wood discoloring fungi, including wood-rotting basidiomycetes strains.

Compatible with many species of wood, including Ponderosa pine, Scot's pine, Southern Yellow Pine, beech, oak, birch, and other species of wood susceptible to wood rotting fungi.

Formulation of solvent and water based preservatives for wood and wood composites, including waferboard, oriented-strand board, plywood and fiberboard.

Formulation of in-ground and above ground wood preservatives. Above ground applications include millwork, wood stains for siding, lumber, plywood, particleboard, decks, and wood furniture. In-ground applications include pilings, utility poles, fence posts and various building materials. A higher addition rate is recommended for in-ground applications.

Formulation of glues and adhesive formulations to preserve the pre-application product, wet stage, and dry film from fungal attack.

Formulation of aqueous-based metalworking, cutting, cooling and lubricating fluids for inhibition of fungal growth.

As with any product, use of PREVENTOL® A 12-TK 50 in a given application must be tested (including field testing, etc.) by the user in advance to determine suitability.

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Addition rates

Addition rates vary depending on the addition method, the article being treated, and use of co-biocides.

Stability & Compatibility

Minimal water solubility prevents leaching.

Low vapor pressure prevents volatilization.

Heat, UV, and sunlight stable.

High resistance to hydrolysis at both low and high pH values.

Formulations containing PREVENTOL® A 12-TK 50 are typically colorfast, although this should be tested in each individual case.

Compatible with binders, pigments, driers and auxiliaries typically used in preservative formulations.

Can be combined with other active ingredients such as imidacloprid (PREVENTOL TM® Insecticide) and copper-based fungicides to provide a full spectrum of pest prevention.

Wood and wood composites treated with PREVENTOL® A 12-TK 50 formulations do not change in appearance and may be painted when dry.

Shelf life

If stored in a cool, dry location in the original container, the shelf life is 3 years.

Packaging

220 kg drum

1100 kg IBC

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Efficacy data

PREVENTOL® A 12-TK 50 has a broad spectrum of activity against wood rotting fungi. Toxic values have been determined in accordance with the relevant internationally recognized standards. The values obtained from samples which have been aged artificially (e. g., EN 73, evaporative aging or EN 84, leaching) are not substantially higher than the levels recorded in samples which have not been aged.

Toxic values (kg/m³) of propiconazole determined in accordance with EN 113

Test fungus	unaged	after evaporative aging (EN 73)	after leaching (EN 73)
<i>Coniophora puteana</i>	0.270 - 0.380	0.310 - 0.390	0.190 - 0.300
<i>Gloeophyllum trabeum</i>	0.390 - 0.500	0.570 - 0.640	0.370 - 0.490
<i>Poria placenta</i>	0.110 - 0.160	0.100 - 0.150	< 0.220
<i>Coriolus versicolor</i>	0.250 - 0.330	0.330 - 0.420	0.160 - 0.200

Registration

EPA Registration number: 39967-95

Formulators are responsible for obtaining their own EPA registration number and developing data required to support their registrations.

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 EPA. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative or the LANXESS Material Protection Products Regulatory Affairs Manager in Pittsburgh, PA.



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Health & Safety Information

It is a violation of federal law to use this product in a manner inconsistent with its labeling. 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 February 2014. Please contact LANXESS Corporation to determine if this publication has been revised.

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