

39967-10

10/18/2010

1/8



FEDERAL STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OCT 18 2010

Luanne Jeram  
Lanxess Corporation  
111 RIDC Park West Drive  
Pittsburgh, PA 15275-1112

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Subject: Preventol A8 Technical Fungicide  
EPA Registration Number: 39967-10  
Amendment Date: July 19, 2010  
EPA Receipt Date: July 20, 2010

Dear Ms. Jeram:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA), as amended, is acceptable with conditions.

**Proposed Amendment**

Update label per PR Notice 2007-4, Container Rule

**Conditions**

Revise the label as follows:

- 1.) Revise the 3<sup>rd</sup> Statement under the "Precautionary Statements" to read "*Causes moderate eye irritation.*" Also, revise the 6<sup>th</sup> statement to read "Wash thoroughly with soap and water after handling and *before eating, drinking, chewing gum, using tobacco, or using the toilet.*"
- 2.) Revise the last statement in the first paragraph under the "Directions for Use" to state "Preventol A8 Technical Fungicide is intended for the formulation of antimicrobial product for use as a wood preservative and materials preservative which include:

**Wood Preservative:**

- Millwork: window frames, wood doors, and doorframes
- Wood Stains: Wood siding, lumber, plywood, particleboard, wood decks, and wood furniture
- In-Ground Contact Uses: Wood products for in ground use (pilings, telephone poles, wood building materials)
- Sapstain Control: Fresh cut lumber

**Materials Preservative:** Plastics, glues and adhesives, metal working fluids

**CONCURRENCES**

SYMBOL							
SURNAME							
DATE							

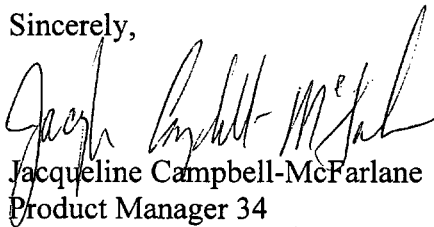
3.) Revise the Technical Bulletin page 4 to be in compliance with PR Notice 2000-5, Mandatory Labeling by deleting the term, recommended.

**General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit three (3) copies of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have further questions concerning this letter, please contact me by telephone at (703) 308-6416 or by e-mail at [campbell-mcfarlane.jacqueline@epa.gov](mailto:campbell-mcfarlane.jacqueline@epa.gov) or Killian Swift of my staff by telephone at (703) 308-6346 email address at [swift.killian@epa.gov](mailto:swift.killian@epa.gov). When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,



Jacqueline Campbell-McFarlane  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

Enclosure: EPA stamped label

**CONCURRENCES**

SYMBOL							
SURNAME							
DATE							

# Preventol<sup>®</sup> A8 Technical Fungicide

FOR USE IN THE MANUFACTURE OF FUNGICIDES IN AQUEOUS AND SOLVENT SYSTEMS TO PROTECT WOOD COMPOSITE PRODUCTS, WOOD PRODUCTS INTENDED FOR ABOVE GROUND AND IN-GROUND CONTACT, PLASTICS, GLUES AND ADHESIVES, AND METALWORKING/CUTTING FLUIDS AGAINST BIODETERIORATION

ACTIVE INGREDIENT: Tebuconazole,  $\alpha$ -[2-(4-Chlorophenyl)-ethyl- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol] -----95.37%  
INERT INGREDIENTS -----4.63%  
TOTAL -----100.0%

## KEEP OUT OF REACH OF CHILDREN WARNING

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if inhaled. Harmful if swallowed. Causes eye irritation. Do not breathe dust and avoid contact with eyes or clothing. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**NOTE TO USER:** For worker protection during mixing, loading and during application, wear a hat, long sleeved shirt, and long legged trousers or overalls. In addition, during mixing and loading, wear rubber or neoprene gloves. Protective clothing should be laundered separately following application.

#### FIRST AID

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** No specific antidote is available. Treat symptomatically.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to estuarine invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Preventol is a registered trademark of LANXESS Corporation  
Produced for LANXESS Corporation

The LANXESS Pittsburgh Emergency Response Telephone Number is 800-424-9300

IN CASE OF EMERGENCY, CALL: CHEMTREC 800-424-9300

EPA Reg. No.: 39967-10

EPA Est. No.:

# LANXESS

LANXESS Corporation

111 RIDC Park West Drive • Pittsburgh, PA 15275-1112

### DIRECTIONS FOR USE

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

**FOR DETAILED DIRECTION FOR USE, PLEASE REFER TO LANXESS CORPORATION TECHNICAL INFORMATION SHEET. Read entire direction before using Preventol / Technical Fungicide.**

Formulators are responsible for obtaining their own EPA Registration No. and developing the data required to support their registrations. Preventol A8 Technical Fungicide is intended for formulation of the following uses:

**Millwork:** Window frames, wood doors, doorframes, etc.

**Wood Stains (Preservative Incorporation):** Wood siding, lumber, plywood, particleboard, wood decks, wood furniture, (outdoor).

**In-Ground Contact Uses:** Wood products for in-ground uses (pilings, telephone poles, wood building materials, etc.).

**Sapstain Control:** Fresh-cut lumber.

**Industrial Preservative Uses:** Plastics, glues and adhesives, metalworking fluids.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**RESTRICTIONS:** Do not package Preventol A8 in metal containers.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, bag may be considered an acute hazardous waste and must be disposed in accordance with local, state, and federal regulations. When completely empty, offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. If outer box is contaminated and cannot be reused, dispose of it in a manner required for the inner bag! Do not use container in connection with food, feed, or drinking water.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material is spilled for any reason or cause, carefully sweep the material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the LANXESS Pittsburgh Emergency Response Team for decontamination procedures or for any other assistance that may be necessary. The LANXESS Pittsburgh Emergency Response Telephone Number is 800-410-3063, or contact CHEMTREC at 800-424-9300.

INTERNATIONAL 703-527-3887

Net Contents:

Lot No.:

OCT 18 2010

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide,  
registered under EPA Reg. No.

LABEL TEXT DATE: 7/19/09

39967-10

21w

512

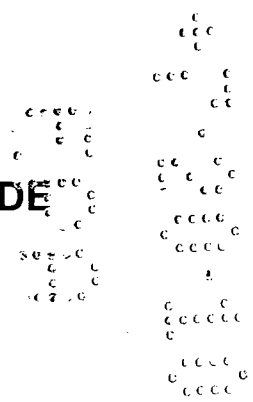
# LANXESS

Energizing Chemistry

Product Information

## PREVENTOL A8 TECHNICAL FUNGICIDE

EPA Registration Number 39967-10  
CAS Number [107534-96-3]



ACCEPTED  
with COMMENTS  
EPA Letter Dated:

OCT 18 2010

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

39967-10

FOR USE IN THE MANUFACTURE OF FUNGICIDES IN AQUEOUS AND SOLVENT SYSTEMS TO PROTECT WOOD COMPOSITE PRODUCTS INTENDED FOR ABOVE GROUND AND IN-GROUND CONTACT, PLASTICS, GLUES AND ADHESIVES AND METALWORKING/CUTTING FLUIDS AGAINST BIODETERIORATION

**Chemical and Physical Data**

<b>Common Name:</b>	Tebuconazole	
<b>Chemical Name:</b>	$\alpha$ -[2-(4-Chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	
<b>Minimum Purity:</b>	min. 93%	
<b>Nominal Concentration:</b>	95.37%	
<b>Density (20°C):</b>	1.202 g/ml	
<b>Bulk Density:</b>	approx. 400 kg/m <sup>3</sup>	
<b>Vapor Pressure (60°C):</b>	approx. 6 x 10 <sup>-6</sup> hPa (pure active ingredient)	
<b>Melting Point:</b>	approx. 103°C	
<b>Flash Point:</b>	> 185°C	
<b>Ignition Temperature:</b>	approx. 468°C	
<b>Solubility of Active Ingredient in % by Weight (20°C):</b>	water	approx. 0.0032%
	ethyl glycol	approx. 27.0%
	propylene glycol monomethyl ether	approx. 25.5%
	dipropylene glycol monomethyl ether	approx. 21.5%
	Solvesso 100	approx. 2.9%
	Kristalloel 60	approx. 0.3%
	white spirit*	approx. 0.3%
	*(aromatic content 30% - calculated as xylene)	

**Stability**

Preventol A8 Technical Fungicide is resistant to hydrolysis in acidic up to strong alkaline formulations. Reaction in water: neutral.

**Storage**

If correctly stored and kept in original sealed container, the shelf life of Preventol A8 Technical Fungicide is 1 year.

**Applications**

Preventol A8 Technical Fungicide has a broad spectrum of activity and is particularly effective against wood-rotting Basidiomycetes strains. Preventol A8 Technical Fungicide is practically unleachable, light-stable, heat-stable and non-volatile and therefore suitable for long-term protection. It is suitable for use in solvent-based and aqueous wood preservatives. The active ingredient is compatible with the binders, pigments, dryers and auxiliaries normally used in wood preservatives as well as with a variety of blue stain fungicides and with insecticides such as Cyfluthrin or permethrin.

Preventol A8 Technical Fungicide is also suitable, due to the above described properties, for preservatives intended to protect plastics, glues and adhesives, and metalworking fluids against infestation by fungal organisms.

**Spectrum of Activity**

Preventol A8 Technical Fungicide has a broad spectrum of activity against wood-rotting fungi. Toxic values are determined in accordance with the relevant internationally recognized standards. The values obtained from samples which have been aged artificially - for example evaporative aging as specified in EN 73 or leaching as specified in EN 84 - are not substantially higher than the levels recorded in samples which have not been aged.

**Toxic values (kg/m<sup>3</sup>) determined in accordance with EN 113**

Test institute BAM <sup>1</sup> 1990, Scot's pine (Pinus sylvestris) sapwood			Test institute BRE <sup>2</sup> 1990/1993, scots pine sapwood		
Test fungus	unaged	after evaporative aging (EN 73)	unaged	after evaporative aging (EN 73)	after leaching (EN 84)
Coniphora puteana	0.030 - 0.050	0.070 - 0.110	* - 0.052 <sup>3</sup>	* - 0.053 <sup>3</sup>	* - 0.054 <sup>3</sup>
Gloeophyllum trabeum	0.012 - 0.030	0.045	* - 0.051 <sup>3</sup>	* - 0.050 <sup>3</sup>	* 0.051 <sup>3</sup>
Poria placenta	0.120 - 0.180	0.280 - 0.440	0.012 - 0.153	0.150 - 0.310	0.099 - 0.152
Coriolus versicolor	test not conducted	test not conducted	0.151 - 0.299	0.155 - 0.306	0.101 - 0.150
1 BAM = Federal Office for Material Research and Testing, Berlin, Germany					
2 BRE = Building Research Establishment Timber Division, Biodeterioration Section, Garston, UK					
3 no failing concentration determined					

**Soil block test AWPA E10-91 carried out by test institute MSFPL<sup>6</sup>**

Test fungus	Wood species	Weathering	Toxic values (kg/m <sup>3</sup> )
Coriolus versicolor	Sweetgum	without	<0.540 <sup>7</sup>
		with	<0.546 <sup>7</sup>
Irpex lacteus	Sweetgum	without	0.018 - 0.019
		with	0.019 - 0.021
Gloeophyllum trabeum	Ponderosa pine	without	0.018 - 0.0193
		with	0.026 - 0.030
Poria Placenta	Ponderosa pine	without	0.117 - 0.123
		with	0.138 - 0.144
6 MSFPL = Mississippi State Forest Products Laboratory, Mississippi State, USA			
7 no weight loss even at lowest retention of tebuconazole used; no toxic value calculated			

**Soil block test ASTM D 1413 carried out by test institute MTU<sup>8</sup>**

Coriolus versicolor (birch)	>50	>50	13.9	0.9
Gloeophyllum trabeum <sup>9</sup> (southern pine)	0.2	-1.6	-0.2	-1
8 MTU = Michigan Technological University, Institute of Wood Research, Houghton, USA				
9 no weight loss even at lowest retention of tebuconazole used; no toxic value calculated				

In addition, the product was tested for fungicidal effectiveness in accordance with the German quality and test regulations (*Güte und Prüfbestimmungen*) for the award of the RAL-quality mark for wood preservatives (RAL-GZ-830).

The results show that 0.6% or more Preventol A8 Technical Fungicide in solvent-based and water-based wood preserving primers and stains applied in quantities of 210 ml/m<sup>2</sup> is sufficient to protect the wood against decay. Products formulated for wood protection must be registered in accordance with EPA requirements.

**INFORMATION ABOUT SAFETY AND HANDLING AND ON ECOLOGICAL AND TOXICOLOGICAL BEHAVIOR IS GIVEN IN OUR MATERIAL SAFETY DATA SHEET.**

**SUGGESTED USES**

**Formulators are responsible for obtaining their own EPA Registration No. and developing the data required to support their registrations. Preventol A8 Technical Fungicide is intended for formulation of the following uses:**

**Wood-based Composite Products**

**GENERAL:** Preventol A8 Technical Fungicide is ~~recommended~~ for the formulation of preservatives intended for use in wood-based composite products, such as waferboard, fiberboard, particleboard, plywood and oriented-strand board to prevent the growth of mildew, blue stain and wood destroying fungi on the composite product. These composites are used in the following applications: millwork, including door and window frames; exterior siding; construction lumber; and exterior wood. Composite wood treated with Preventol A8 Technical Fungicide does not change in appearance and may be painted when dry.

ALL OF THE ABOVE USES ARE NON-SOIL CONTACT NON-FUMIGATION TREATMENTS

**Wood Products Intended for In-Ground and Out of Ground Contact**

**GENERAL:** Preventol A8 Technical Fungicide is ~~recommended~~ for the formulation of preservatives for use in wood intended for above-ground and/or in-ground contact, such as Ponderosa pine, Scots pine, Southern yellow pine, beech, oak, birch, and other wood species susceptible to decay by rotting fungi. Such uses include fence posts, poles, horticultural posts, etc.

Preventol A8 Technical Fungicide may be applied to wood through a wood preservative formulation based on: water and/or organic solvents, emulsifiers, fixating agents like wax, additional active ingredients (to protect against fungi and/or insects, including termites), dyestuffs, pigments and penetration improvers.

The method of incorporation of Preventol A8 Technical Fungicide will depend on the specific preservative formulation, specific treating process and wood species to be treated. Formulations for application by dip, double vacuum or pressure treatment methods are possible.

ALL OF THE ABOVE USES ARE NON-FUMIGATION TREATMENTS

**Plastics Preservation**

**GENERAL:** Preventol A8 Technical Fungicide is ~~recommended~~ for the formulation of preservatives intended for use in PVC, polyurethane, and other polymers used for the production of shower curtains, tarpaulins, sun umbrellas and other plastics products.

**Glues and Adhesives**

**GENERAL:** Preventol A8 Technical Fungicide can be used for the formulation of preservatives intended for use in glues and adhesive formulations to prevent infestation by a wide variety of fungal organisms. With the use of Preventol A8 Technical Fungicide, it is possible to protect both the pre-application, wet stage and the dry film of such products against fungal attack. A long-lasting effect is secured, as Preventol A8 Technical Fungicide is practically non-volatile and insoluble in water.

~~Recommended~~ use include, but are not limited to the following:

- casein containing adhesives, such as that used for labeling and books;
- starch-based glues typically used in wallpaper;
- dextrin adhesives;
- synthetic polymer-based adhesives, such as acrylic, styrene butadiene, and polyvinyl alcohol ; and
- animal glues, such as bone, skin and gelatin-based glues.

~~Recommended~~ levels are 0.75 - 2.0% active ingredient based on the total weight of product to be protected

Note: Adhesives formulated for food packaging applications may require approval by the Food and Drug Administration.

**Metalworking/Cutting Fluids**

Preventol A8 Technical Fungicide can be used for the formulation of preservatives intended for use in metalworking/cutting fluids to prevent infestation by fungal organisms. Preventol A8 Technical Fungicide formulations will prevent fungal growth in aqueous-based metalworking, cutting, cooling and lubricating fluids. Preventol A8 Technical Fungicide formulations prevent growth of mold-fungi. If supplementary protection against bacterial growth is required, LANXESS Corporation recommends combination with a suitable bactericide.

~~XXXXXXXXXX~~ Concentrations based on amount of Preventol A8 Technical Fungicide in formulation:

**Metalworking fluids - Mineral Oil Based**

Metalworking fluids (concentrates): 2.0 - 4.0%  
Metalworking fluids (ready to use): 0.1 - 0.2%

**Metalworking fluids - Non-Mineral Oil Based**

Metalworking fluids (concentrates): 2.0 - 4.0%  
Metalworking fluids (ready to use): 0.1 - 0.2%

LANXESS Corporation  
111 RIDC Park West Drive  
Pittsburgh, PA 15275  
412-809-1000

The conditions of your use and application of 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 at least must include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by LANXESS Corporation. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases LANXESS 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 LANXESS. 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.