

PM 32

70404-4

9-10-99

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Antimicrobials Division (7510C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
70404-0004

Date of Issuance:  
Sept. 10, 1999

Term of Issuance: Conditional

Name of Pesticide Product: Ciba Tinosan  
AM 100

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Ciba Speciality Products  
4090 Premier Drive  
P.O. Box 2444  
High Point, N.C. 27261-2444

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to the use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. We will waive the acute inhalation toxicity data requirement at this time. This data requirement, guideline 81-3, must be satisfied after the Reregistration Eligibility Decision document is issued with the Product Specific Data Call-In. The Agency will re-evaluate all Irgasan uses as part of the Reregistration Eligibility Decision which is currently scheduled for FY2000.

You may wish to upgrade the existing data or repeat the study before then. The unacceptable acute inhalation data is currently considered Toxicity Category II. The Precautionary Statements must include the following Personal Protective Equipment statement:

IF INHALED: May be fatal if inhaled. Do not breathe dust, vapor or spray mist. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Remove contaminated clothing and was clothing before reuse.

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Signature of Approving Official:

Robert S. Brennis  
Product Manager 32

Date:

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3. The two First Aid Statements must be revised accordingly:

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF ON SKIN: Corrosive. Causes skin burns. Do not get in eyes or on clothing. Wear protective clothing and chemical resistant gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

4. In your conditionally approved label the following language must be added to the area after Directions For Use, Use Directions on the front panel and before the Features section of the Technical Bulletins which are stamped as part of the label and subject to Agency approval if changed by Notification or Amendment:

Ciba Tinosan AM 100 is effective against non-health related organisms which may contribute to the deterioration of the treated product. The use of Ciba Tinosan AM 100 extends the life of the treated article and controls deterioration resulting from non-health related organisms on treated articles. Finished products containing Ciba Tinosan AM 100 may not make claims of antimicrobial activity other than the protection of the article itself against growth of bacteria and mold in or on the treated article.

- \* **Do not use in the manufacture or treatment of items that may come in contact with food.** (In bold type)
- \* Use only under an agreement with Ciba Speciality Products Company.
- \* Do not use for the production of baby diapers or fiber for the production of baby diapers.
- \* Do not use for the production of health care products or products intended to decrease the transmission of disease (items regulated by the Food & Drug Administration).

5. The following conditions apply to labels for exempted treated articles:

- A. No implied or explicit public health claims of any kind may be made.
- B. The claims concerning the presence of a pesticide in the treated article are limited to protection of the treated article **only**.
- C. When such claims involve antibacterial properties, the words "antibacterial," "antimicrobial," "germicidal," or related terms, which are not part of the name of the product, the permissible claims must be qualified by statements indicating that the presence of antibacterial properties does not protect the users against disease. The users of this product should follow prudent hygienic measures by cleaning and washing themselves and the article if possible.

If you have any language on the treated article label which indicates that the article has been treated with a regulated substance, then you must include language similar to the following statement:

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“Antibacterial properties are built-in to inhibit the growth of bacteria that may affect this product. The antibacterial properties do not protect users or others against bacteria, viruses, germs or other disease organisms. Always clean and wash this product thoroughly before and after use.”

If applicable, the following statement should also be used:

“Antibacterial properties will not wash off and are intended only to protect the product”

All references to “antibacterial” properties and the required qualifying statements must be located together, must be printed in type of the same size, style and color and must be given equal prominence. Moreover, such references may not be given any greater prominence than other described product features.

No claims may be made to provide a safer or healthier environment to mitigate disease or to control the spread of allergens or insect vectors. Such claims are not exempted treated article use sites and may only be obtained through the development of acceptable performance data and separate end-use registration allowing such claims.

6. On the front panel under the words **Storage and Disposal** add the statement:  
Do not contaminate water, food or feed by storage or disposal.

7. On page 2 of the Technical Bulletin you must delete these unacceptable uses: *diapers* and *tooth brush britles*. (sic)

8. Submit two copies of the revised final printed labeling changing the EPA File symbol 70404-U to EPA Registration Number 70404-4 and revise establishment number if necessary.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label and the chemistry and toxicology review are enclosed for your records. If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.



Ciba

**Ciba® Tinosan® AM100**  
**Antimicrobial**

**Durable Freshness Compound**  
For Textile and Textile Fiber Treatment

**ACTIVE INGREDIENT**

5-chloro-2-(2,4-dichlorophenoxy)-phenol.....	10.0%
INERT INGREDIENTS.....	90.0%
Total:	100.0%

EPA Reg. No. 70404-~~38~~<sup>4</sup> EPA Est. 70404-DEU-001

**Keep Out of Reach of Children**

**DANGER**

See additional precautionary statements and directions for use on the side panel.

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**30 Kg**  
**Net Weight**

**CONDITIONS OF SALE AND WARRANTY**

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness, or other unintended consequences may result because of such factors as presence of other materials, or the manner of use or application all of which are beyond the control of Ciba Specialty Chemicals or the Seller. All such risks shall be assumed by the Buyer.

Ciba Specialty Chemicals warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. **Ciba Specialty Chemicals makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba Specialty Chemicals or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.** Ciba Specialty Chemicals and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba Specialty Chemicals.

**DIRECTIONS FOR USE**

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

**IMPORTANT:** Read the entire directions for use and the conditions of sale and warranty before using this product. If terms are not acceptable, return unopened product at once.

**USE DIRECTIONS:** Use this product to control odor-causing and spoilage/deterioration microorganisms on textiles and textile fibers. The textile materials that this product can be used to treat are listed in the technical bulletin. Please refer to the Ciba Tinosan® AM100 Antimicrobial Technical Bulletin for specific instructions on treating textile materials.

**STORAGE AND DISPOSAL**

**STORAGE:** Store in cool, dry area with adequate ventilation. Sensitive to heat over 40° C. Store as a combustible liquid.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture 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 Region Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture, remove label, and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. In the event of a major spill, fire or other emergency, call 1-800-873-1138 day or night.

**Precautionary Statements**  
**Hazard to Humans and Domestic Animals**  
**DANGER**

Corrosive, causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling.

**First Aid:**

**If swallowed:** Call a physician or Poison Control Center. Do not induce vomiting. Promptly drink a large quantity of milk, egg whites, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

**If on skin:** Wash with plenty of soap and water. Seek medical attention if irritation persists.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

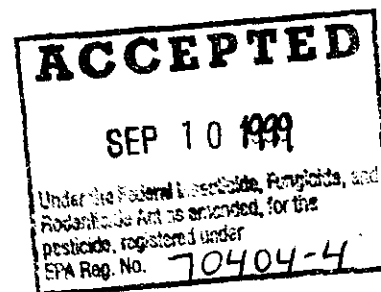
**Environmental Hazards:**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public 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 discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**Physical or Chemical Hazards:**

Combustible. Do not use or store near heat or open flame.

Ciba Specialty Chemicals Corporation  
High Point, North Carolina 27261



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Antimicrobials

# TINOSAN<sup>®</sup> AM 100

Antimicrobial for textile treatment

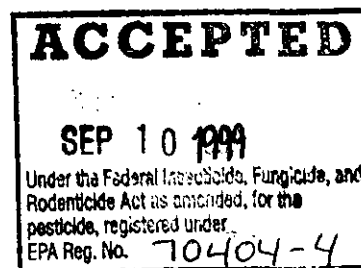
## Features

— see letter of Sept. 10, 1999 for Additional language

- Highly effective Just a small amount provides excellent antimicrobial efficacy "Use this product to control odor-causing and spoilage /deterioration microorganisms on textile and textile fibers".
- High permanency Tinosan AM 100 is fixed inside and protected by the fibres, thus providing excellent efficacy and washing fastness
- Durable freshness Consumer studies have shown that the use of Tinosan AM 100 reduces the malodour formation in textiles
- Outstanding exhaustion rate Minimised environmental impact
- Easy to incorporate Incorporation is carried out together with dyeing process
- Excellent compatibility The antimicrobial treatment does not affect subsequent finishing processes

## Example of products with fiber:

- Apparel trimmings and linings
- Aprons (food service, home)
- Athletic Wear
- Awnings (Indoor and Outdoor)
- Blanket bags
- Blankets
- Brushes
- Carpets and Rugs
- Conveyor belts
- Covers for counter tops
- Covers for table tops
- Cubicle curtains
- Door and floor mats
- Dresses
- Exercise equipment
- Floor coverings
- Food Services wipes (towels)



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Furniture fabrics  
 Garment bags  
 Gloves (non-medical)  
 Hair brushes  
 Hosiery and socks  
 Incontinence care products (diapers and underpads)  
 Intimate Apparel (Underwear)  
 Janitorial brushes and brooms  
 Linens (towels, sheets, pillowcases, mattress covers, etc.)  
 Mattress and pillow ticking  
 Medical and Dental clothing  
 Mops  
 Paper mulch  
 Pillow and mattress stuffing Gowns and bibs (medical & consumer)  
 Quilt fabric  
 Running gears  
 Service Uniforms  
 Shoes, shoe inner soles and lining  
 Shower curtains  
 Silage wraps  
 Sporting team uniforms  
 Sportswear  
 Sweatshirts/t-shirts  
 Table cloths, napkins  
~~Tooth brush bristles~~  
 Uniforms  
 Wall covering  
 Wet suits  
 Window curtain and draperies

### Type of fibers:

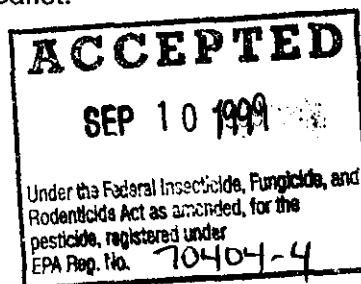
Polyester  
 Polyamide  
 Nylon => Nylon 6 and Nylon 66  
 Polyester blends with one or more selected from cotton, viscose, nylon,  
 elastomers, nylon blends with elastomer, PES  
 Polyester / cotton

### Direction for Use:

Tinosan AM 100 is applied by exhaustion from the dyebath together with dyestuff. Tinosan AM 100 diffuses into fiber and gets fixed in at a level of 5%. Higher concentrations need to be applied to manmade fiber if they are blended with natural or other untreated fibers. Preliminary trials are advisable before using the product with other products, e.g., dyestuffs and DPAs other than those recommended in this leaflet.

### Level of application

5% of Tinosan AM 100 on weight of the fabrics.



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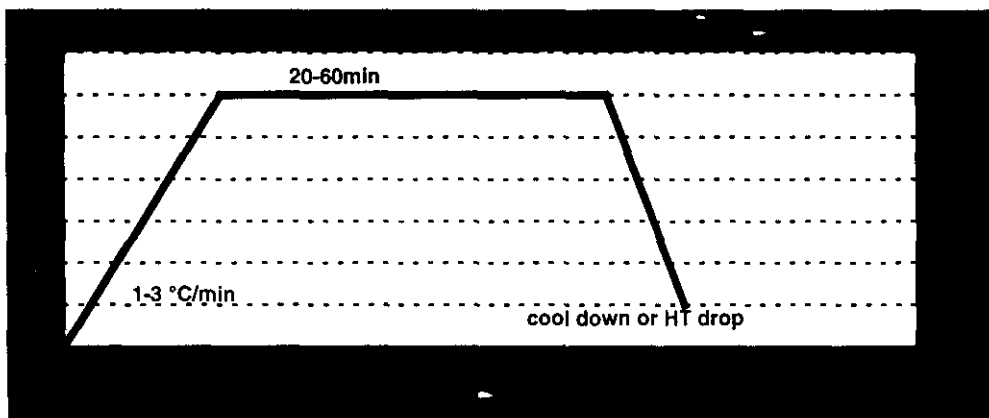
## Properties

- Chemical constitution: organic antimicrobial agent
- pH at 25°C: 7-9
- Density at 25°C: ca. 1.01-1.11 g/cm<sup>3</sup>
- Physical form: clear solution. when diluted with water, a pale and stable emulsion is formed.
- Storage stability: TINOSAN AM 100 is stable for 12 months when properly stored in closed containers at 20°C.
- The product is sensitive to temperatures above +40°C and below 0°C. Store as a flammable liquid

## Examples of application:

- 100% polyester

### HT method



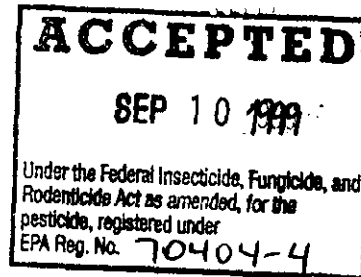
5	%	TINOSAN AM 100
0.5-1.0	g/l	UNIVADINE DP
1.0	g/l	ammonium sulphate
x	%	TERASIL dye
pH 4-5 with formic acid		

dye at 130°C for 20-60 min. (depending on depth of shade)

Rinse: warm and cold

Reduction clear if necessary (dark shades)

4	ml/l	caustic soda 36°Be
2	g/l	sodium hydrosulphite
1	g/l	ERIOPON OL

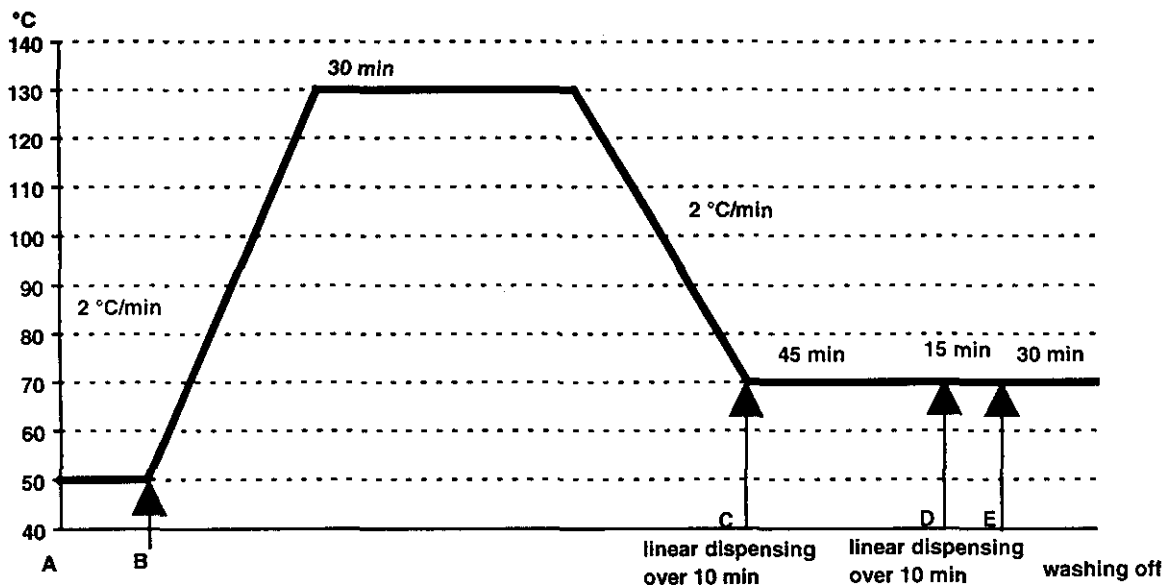


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10 -20 min at 70 °C  
Rinse and neutralise

• Polyester/cellulose blends

One bath method



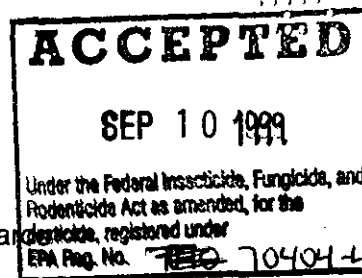
A	5	%	TINOSAN AM 100
	1.0	g/l	IRGASOL CO new
	0.5	g/l	ALBATEX FFO
	1.0-2.0	g/l	CIBAFLUID C
	1.0-3.0	g/l	LYOPRINT RG
	0.5-1.0	g/l	UNIVADINE DIF
	1.0	g/l	ammonium sulphate
	x	%	TERASIL dye*
	pH 4-5		with formic acid
B	10-30	g/l	Glauber's salt
C	y	%	CIBACRON LS dye*
D	4	g/l	soda ash
	1	ml/l	caustic soda 36°Be
E	1.5-3.0	ml/l	caustic soda 36°Be

\* referred to the blend ratio

Washing off:

- rinse for 10 min at 50°C
- neutralise for 10 min at 70°C
- soap for 10 min at 95°C with 2 g/l ERIOPON OS
- rinse for 10 min. at 70°C
- rinse for 10 min cold

Please see also TERASIL and CIBACRON LS pattern card



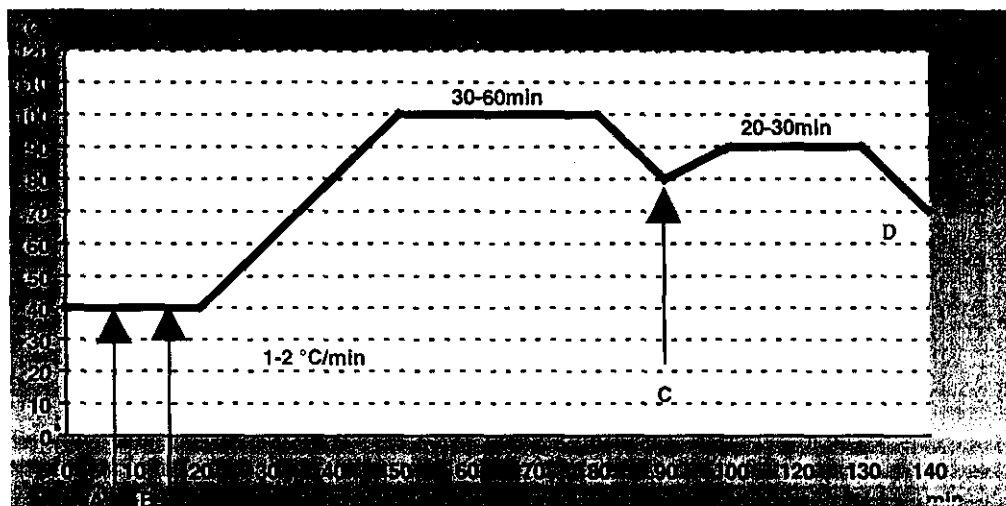
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- 100% Nylon

## Winch/Overflow/Jet



<b>A</b>	0.3-0.5 g/l	ALBEGAL FFA
	1-2 %	CIBAFLUID C (if necessary)
	1.5-3 %	UNIVADINE NT
	0.5-2 g/l	sodium acetate or ammonium acetate
	pH 4.5-6	with acetic acid
<b>B</b>	x %	TECTILON, ERIONYL or LANASET dyes
<b>C</b>	5 %	TINOSAN AM 100
<b>D:</b>	washing off	

Please see also NEOLAN and LANASET pattern cards

Edition EPA/99

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