

464-78

10/05/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OCT 5 2009

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Rhonda Vance-Moeser, Senior Regulatory Specialist  
The Dow Chemical Company  
1803 Building  
Midland, MI 48674

Subject: Notification per PR Notice 98-10  
Dowicide™ A Antimicrobial  
EPA Registration Number: 464-78  
Application Date: September 14, 2009  
Receipt Date: September 15, 2009

Dear Ms. Vance-Moeser:

This acknowledges receipt of your notification, submitted under the provisions of PR Notice 98-10 and FIFRA section 3 (c) 9.

**Proposed Notification:**

Label revision as per PR Notice 2007-4.

**General Comments:**

The notification is acceptable. A copy has been inserted in your file for future reference.

Should you have further questions concerning this letter, please contact Killian Swift by telephone at 703-308-6346 or by email 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,

A handwritten signature in cursive script that reads "ShaRon Carlisle".

ShaRon Carlisle  
(Acting) Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510P)



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 464-78	2. EPA Product Manager Adam Heyward	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) The Dow Chemical Company/DOWICIDE™ A Antimicrobial	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) The Dow Chemical Company 1803 Building Midland, MI 48674 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to update label in response to PR Notice 2007-4. Enclosed cover letter reflects the required Notification statement.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rhonda Vance-Moeser	Title Sr. Regulatory Specialist	Telephone No. (include Area Code) (989) 636-1884
2. Signature <i>Rhonda Vance-Moeser</i>		6. Date Application Received (Stamped)
3. Title Sr. Regulatory Specialist		
4. Typed Name Rhonda Vance-Moeser		
5. Date <i>Sept. 14, 2009</i>		



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The Dow Chemical Company  
Midland, Michigan 48667

September 14, 2009

Overnight Mail

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, Virginia 22202-4501

**RE: NOTIFICATION – EPA REG. NO. 464 –78  
DOWICIDE™ A Antimicrobial**

To Whom It May Concern:

The Dow Chemical Company (Dow) hereby submits a Notification application to revise the container disposal statement on the label in response to PR Notice 2007-4. In order for the application to be processed the required Notification statement is below.

**“This Notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject enforcement action and penalties under section 12 and 14 of FIFRA”**

Enclosed are the following documents to support this Notification

- 1) Completed application, Pesticide Registration, Form 8570-1.
- 2) One marked copy of the label indicating the change highlighted in yellow.
- 3) Two copies of final label.

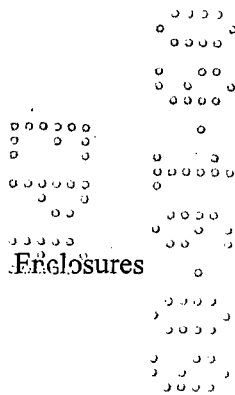
Please contact me if you have any questions or need additional information:

Sincerely,

*Rhonda Vance-Moeser*

*Bm*

Rhonda Vance-Moeser  
Senior Regulatory Specialist  
574 Building, Office 2044  
Midland, MI 48667  
Phone: (989) 636-1884  
e-mail: [rgvmoeser@dow.com](mailto:rgvmoeser@dow.com)



Enclosures

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**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**  
**PRECAUTIONARY STATEMENTS**  
 Hazards to Humans and Domestic Animals  
**DANGER • Corrosive To Skin • Injurious To Eyes • Irritating Dust • Harmful If Swallowed • Do Not Get in Eyes, on Skin, or on Clothing • Avoid Breathing Dusts • Wear Goggles or Face Shield and Rubber Gloves When Handling • Wash Thoroughly After Handling**

**ENVIRONMENTAL HAZARDS**  
 This pesticide is toxic to fish and aquatic organisms. 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 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. Do not contaminate water by cleaning of equipment or disposal of wastes.

**STORAGE AND DISPOSAL**  
**Do not contaminate water, food or feed by storage or disposal.**  
**Storage** - Keep package tightly closed when not in use.  
**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 Regional Office for guidance.  
**Container Disposal** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mix tank. Triple rinse liner then remove liner and dispose of liner in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Then offer container for recycling. If container is contaminated and cannot be reused, dispose of it in the manner required for its liner.  
**NOTICE:** Do not Ship or Store with Food, Feeds, Drugs or Clothing.

**NOTIFICATION**  
 Date Reviewed: 10/5/09  
 Reviewed By: K. Swift

**NOTICE:** Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label (except uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration) when used in accordance with directions under normal conditions of use. **THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.**

# DOWICIDE™ A

## Antimicrobial

For the control of fungi and bacteria in industrial applications, and for postharvest preservation of pears and citrus fruits.

Active Ingredient(s): Sodium o-phenylphenate ..... 71.7%  
 Inert Ingredient(s): ..... 28.3%  
 Total: ..... 100%

FIRST AID	
<b>IF IN EYES</b>	• Hold eye open and rinse slowly and gently with water for 30 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call poison control center or doctor (preferably ophthalmologist) for treatment advice.
<b>IF ON SKIN OR CLOTHING</b>	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 30 minutes. • Call a poison control center or doctor for treatment advice.
<b>IF SWALLOWED</b>	• Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to do so. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
<b>IF INHALED</b>	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

**HOT LINE NUMBER**  
**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call toll free 1-800-989-636-4400. Have the product container or label with you when calling a poison control center or doctor or going for treatment.  
**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

E.P.A. Registration No. 464-  
 E.P.A. Est. No. XXXX-XXX-XX

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Only for (1) postharvest preservation of pears and citrus fruits or industrial uses as specified on this label; (2) uses for which USEPA has accepted the required data and/or citation of that the formulator has submitted in support of registration; or (3) uses for experimental purposes that are in compliance with USEPA requirements.

If exposed to air for prolonged periods, this material may give a cloudy solution in water. Cloudiness may be minimized by adding sufficient caustic (sodium hydroxide).

DOWICIDE A Antimicrobial, when used according to good manufacturing practices, meets requirements of the FDA for use in resinous and polymeric coatings: can end cements [21 CFR 175.300(b)(3)(xxxi)]; adhesives [21 CFR 175.105(c)(5)]; animal glue [21 CFR 178.3120(d) zinc-silicon dioxide matrix coatings [21 CFR 175.390(b)(2)]; components of paper and paperboard in contact with aqueous and fatty foods [21 CFR 176.170(b)(2)]; components of paper and paperboard in contact with dry food [21 CFR 176.180(b)(1)]; defoaming agents used in the manufacture of paper and paperboard [21 CFR 176.310(d)(3)]; and closures v sealing gaskets for food containers [21 CFR 177.1210(b)(5)].

Produced for:



**THE DOW CHEMICAL COMPANY**

Midland, Michigan 48674 U.S.A.  
 (989) 636-4400

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 or an affiliated company of Dow

**NET WT.: 25 kg/55.12 lb**  
**LOT**

REN

# DOWICIDE™ A

## Antimicrobial

For the control of fungi and bacteria in industrial applications, and for postharvest preservation of pears and citrus fruits.

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Sodium o-phenylphenate	71.7%
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	28.3%
<b>Total:</b>	<b>100%</b>

### FIRST AID

<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 30 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call poison control center or doctor (preferably ophthalmologist) for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 30 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to do so.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>

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

E.P.A. Registration No. 464-78  
E.P.A. Est. No. XXXX-XXX-XXX

### DIRECTIONS FOR USE

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Only for (1) postharvest preservation of pears and citrus fruits or industrial uses as specified on this label; (2) uses for which USEPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; or (3) uses for experimental purposes that are in compliance with USEPA requirements.

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DOWICIDE A Antimicrobial, when used according to good manufacturing practices, meets the requirements of the FDA for use in resinous and polymeric coatings: can end cements [21 CFR 175.300(b)(3)(xxxi)]; adhesives [21 CFR 175.105(c)(5)]; animal glue [21 CFR 178.3120(d)(3)]; zinc-silicon dioxide matrix coatings [21 CFR 175.390(b)(2)]; components of paper and paperboard in contact with aqueous and fatty foods [21 CFR 176.170(b)(2)]; components of paper and paperboard in contact with dry food [21 CFR 176.180(b)(1)]; defoaming agents used in the manufacture of paper and paperboard [21 CFR 176.210(d)(3)]; and closures with sealing gaskets for food containers [21 CFR 177.1210(b)(5)].

Produced for:



**THE DOW CHEMICAL COMPANY**

Midland, Michigan 48674 U.S.A.  
(989) 636-4400

© TM Trademark of The Dow Chemical Company ("Dow")  
or an affiliated company of Dow

**NET WT.: 25 kg/55.12 lb**  
**LOT**

NOTE: PRODUCERS USING THIS PRODUCT TO FORMULATE ARE RESPONSIBLE FOR OBTAINING EPA REGISTRATION FOR THEIR PRODUCTS.

**POSTHARVEST PRESERVATION - PEARS AND CITRUS FRUITS**  
For postharvest preservation of pears and citrus fruits, DOWICIDE A by wt in an aqueous solution or in an appropriate spray, dipping, or flooding.

**INDUSTRIAL APPLICATIONS**  
DOWICIDE A Antimicrobial may be used during the production of household, institutional and industrial uses.

**Application: Adhesives**  
Purpose: To protect adhesives based on starch, protein, gums, and natural and synthetic rubber latex from deterioration during manufacture, storage, and service life.

**Application: Ceramic Glazes and Clay Slips**  
Purpose: To prevent bacterial decomposition.

**Application: Fire Extinguisher Solutions**  
Purpose: To preserve foam-type solutions.

**Application: Chemical Toilets**  
Purpose: To control odors in chemical toilets on buses, trucks, and other vehicles.

**Application: Floor Wax Emulsions**  
Purpose: For shelf preservation.

**Application: Ink**  
Purpose: For shelf preservation of dextrin-based water-based inks.

**Application: Laundry Starch**  
Purpose: To preserve liquid starch during shelf and use.

**Application: Leather**  
Purpose: To prevent slippage of hair on furs in soaking and finishing formulations.

**Application: Paint**  
Purpose: For preservation of decomposable raw materials during paint manufacturing or storage.

**Application: Polyvinyl Alcohol**  
Purpose: To preserve solutions of the alcohol.

**Application: Pulp and Paper**  
Purpose: To preserve coatings, sizings, and printing colors on animal and vegetable proteins, and latex.

**Application: Textiles**  
Purpose: To preserve processing materials and finishes during storage.

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DIRECTIONS FOR USE - continued

NOTE: PRODUCERS USING THIS PRODUCT TO FORMULATE PESTICIDES ARE RESPONSIBLE FOR OBTAINING EPA REGISTRATION FOR THEIR FORMULATED PRODUCTS.

POSTHARVEST PRESERVATION - PEARS AND CITRUS FRUITS

For postharvest preservation of pears and citrus fruits, use 0.05 - 3.09% DOWICIDE A by wt in an aqueous solution or in an approved wax emulsion. Apply by spraying, dipping, or flooding.

INDUSTRIAL APPLICATIONS

DOWICIDE A Antimicrobial may be used during the production of products for household, institutional and industrial uses.

Application: Adhesives

Purpose: To protect adhesives based on starch, protein, natural and synthetic gums, and natural and synthetic rubber latex from deterioration during manufacture, storage, and service life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.05-1.0% by wt of formulation.

How To Apply: Add as a concentrated aqueous solution to the formulation.

Application: Ceramic Glazes and Clay Slips

Purpose: To prevent bacterial decomposition.

Suggested Concentration of DOWICIDE A Antimicrobial 0.05-0.19% by wt of formulation.

How To Apply: Add to ingredients of formulation as they are charged into ball mill.

Application: Chemical Toilets

Purpose: To control odors in chemical toilets on buses, trains, and airplanes.

Suggested Concentration of DOWICIDE A Antimicrobial 1.0-1.5 oz per quart of water.

How To Apply: Dissolve antimicrobial in water.

Application: Fire Extinguisher Solutions

Purpose: To preserve foam-type solutions.

Suggested Concentration of DOWICIDE A Antimicrobial 0.25-0.5% by wt of solution.

How To Apply: Add antimicrobial to solution.

Application: Floor Wax Emulsions

Purpose: For shelf preservation.

Suggested Concentration of DOWICIDE A Antimicrobial Add 0.1-0.5% by wt of emulsion.

How To Apply: Add to water phase of emulsion during formulating process.

Application: Ink

Purpose: For shelf preservation of dextrin-based watercolor printing inks.

Suggested Concentration of DOWICIDE A Antimicrobial 0.025 - 0.5% by wt of formulation.

How To Apply: Add as a concentrated aqueous solution to the formulation.

Application: Laundry Starch

Purpose: To preserve liquid starch during shelf and use life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.025 - 0.2% by wt of formulation.

How To Apply: Add as a concentrated aqueous solution to the formulation.

Application: Leather

Purpose: To prevent slippage of hair on furs in soaking liquors; to prevent deterioration of treating and finishing formulations.

Suggested Concentration of DOWICIDE A Antimicrobial One part per 15 parts of water for soaking liquors 0.5% to 1.0% by wt for pastes, dressings, and finishes.

How To Apply: Add as a concentrated aqueous solution to the formulation.

Application: Paint

Purpose: For preservation of decomposable raw material solutions or dispersions during paint manufacturing or storage. For shelf preservation of water-based paints.

Suggested Concentration of DOWICIDE A Antimicrobial Minimum of 0.6% by wt of formulation.

How To Apply: Add as a concentrated aqueous solution to the formulation.

Application: Polyvinyl Alcohol

Purpose: To preserve solutions of the alcohol.

Suggested Concentration of DOWICIDE A Antimicrobial 0.6-0.8% by wt of solution.

How To Apply: Add antimicrobial to solution.

Application: Pulp and Paper

Purpose: To preserve coatings, sizings, and printing colors based on starch, animal and vegetable proteins, and latex.

Suggested Concentration of DOWICIDE A Antimicrobial 0.1-1.0% by wt of material preserved.

How To Apply: Add as a concentrated aqueous solution.

Application: Textiles

Purpose: To preserve processing materials and finished yarns and cloth during storage.

Suggested Concentration of DOWICIDE A Antimicrobial 0.1-0.75% by wt of materials treated.

How To Apply: Add as a concentrated aqueous solution.

APPLICATIONS NOT REGISTERED FOR USE IN CALIFORNIA

Application: Construction Material Preservation

Purpose: To control the growth of fungi and bacteria in building materials such as mastics, caulks, joint cements, spackling, grouting and concrete admixtures.

Suggested Concentration of DOWICIDE A Antimicrobial 0.025 - 0.4% by wt of formulation.

How To Apply: Add at a suitable point during the manufacture. DOWICIDE A may be premixed with water prior to addition to reduce incorporation time into the formulation.

Application: Polymer Latex Dispersions and Emulsions

Purpose: To preserve synthetic and natural polymer latices in manufacture and storage; including acrylic, styrene/butadiene, ethylene/vinylacetate, vinyl/acrylic and biopolymer based systems.

Suggested Concentration of DOWICIDE A Antimicrobial Add 0.1 - 1.0% by wt of emulsion.

How To Apply: Add to the latex or solutions slowly with agitation by premixing into a concentrated aqueous solution.

Application: Metalworking Fluids

Purpose: To prevent decomposition of oils, emulsifying agents, and other components.

Suggested Concentration of DOWICIDE A Antimicrobial Add DOWICIDE A to yield 0.05 to 0.5% by wt. in diluted metalworking fluid.

How To Apply: Add as a concentrated aqueous solution to the use dilution of the metalworking fluid or to the concentrate prior to dilution.

Application: Slurries

Purpose: To control the growth of fungi and bacteria in aqueous based slurries.

Suggested Concentration of DOWICIDE A Antimicrobial Add 0.015 - 0.6% by wt of slurry.

How To Apply: Add as a concentrated aqueous solution at a suitable point during the manufacture, container loading/filling, shipment or storage of the slurry.

Application: Wood and wood products

Purpose: To protect from mold, mildew, and sapstain.

Suggested Concentration of DOWICIDE A Antimicrobial Construction woods: 1-4% by wt of solution.

Pallets, fruit and vegetable pallets: 1-3% by wt of solution.

How To Apply: Apply as an aqueous dip, or spray by preparing an aqueous solution.

Application: Polymers and plastics

Purpose: To protect the following systems from deterioration during manufacture, storage and service life: acrylic, PVC, polyvinylacetate (PVA), vinyl/acrylic-based, styrene butadiene, polyester-based, polyurethane-based, other polymer dispersions, rubber.

Suggested Concentration of DOWICIDE A Antimicrobial 0.15-0.7% by wt of material to be protected.

How To Apply: Add at a suitable point during the manufacture.

Application: Biopolymers

Purpose: To protect from deterioration during manufacture, storage, and service life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.15-0.3% by wt of material to be protected.

How To Apply: Add at a suitable point during the manufacture.

Application: Photographic solutions

Purpose: To protect from deterioration during manufacture, storage, and service life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.1-0.4% by wt of material to be protected.

How To Apply: Add at a suitable point during the manufacture.

Application: Dyes, Tints, Pigments and Filler Suspensions

Purpose: To protect from deterioration during manufacture, storage, and service life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.07-0.3% by wt of materials treated.

How To Apply: Add at a suitable point during the manufacture.

Application: Cleaning Solutions

Purpose: To protect from deterioration during manufacture, storage, and service life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.1-0.6% by wt of solution.

How To Apply: Add at a suitable point during the manufacture.

Application: Wax Emulsions and Polishes

Purpose: To protect from deterioration during manufacture, storage, and service life.

Suggested Concentration of DOWICIDE A Antimicrobial 0.1-0.6% by wt of emulsion.

How To Apply: Add at a suitable point during the manufacture.