

464-126

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™ IE Antimicrobial  
EPA Registration Number: 464-126  
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 black ink, appearing to read "ShaRon Carlisle".

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

Please read instructions on reverse before completing form.

Form Approved OMB No. 2070-0060



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 464-126	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™ 1E 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: <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> 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
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)      
2. Signature <i>Rhonda Vance-Moeser</i>	3. Title Sr. Regulatory Specialist	
4. Typed Name Rhonda Vance-Moeser	5. Date <i>Sept. 14, 2009</i>	



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 –126  
DOWICIDE™ 1E 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 • Causes Irreversible Eye Damage • Causes Skin Burns • Harmful If Swallowed • Do Not Get in Eyes on Skin, or on Clothing • Wear Goggles or Face Shield When Handling • Wear Protective Clothing and Rubber Gloves • Wash Thoroughly With Soap and Water After Handling • Remove Contaminated Clothing and Wash Before Reuse**

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. 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 Regional Office of the EPA.

**STORAGE AND DISPOSAL**

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

**Storage** - Keep package tightly closed when not in use.

**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.

# DOWICIDE™ 1E

## Antimicrobial

For the control of fungi and bacteria, including pseudomonads, in industrial applications.

Active Ingredient(s):

Ortho-phenylphenol \_\_\_\_\_ 99.5%

Inert Ingredient(s): \_\_\_\_\_ 0.5%

Total: \_\_\_\_\_ 100%

**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 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor 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 15-20 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> </ul>

**HOT LINE NUMBER**

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call **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. XXXXX-XXX-XX

**NOTIFICATION**  
Date Reviewed: 12/5/09  
Reviewed By: [Signature]

Produced for:

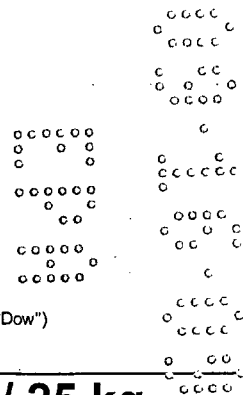


**THE DOW CHEMICAL COMPANY**

Midland, Michigan 48674 U.S.A.

(989) 636-4400

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**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.**

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

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# DOWICIDE™ 1E

## Antimicrobial

For the control of fungi and bacteria, including pseudomonads, in industrial applications.

Active Ingredient(s):		
Ortho-phenylphenol	_____	99.5%
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<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> </ul>

### HOT LINE NUMBER

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call collect **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. 464-126

E.P.A. Est. No. XXXXX-XXX-XXX

**NOTIFICATION**  
 Date Reviewed: *10/15/09*  
 Reviewed By: *[Signature]*

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: 55.12 lb / 25 kg

# LOT

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

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

DOWICIDE 1E Antimicrobial, when used according to good r practices, meets the requirements of the FDA for use in defi CFR 176.210), adhesives (21-CFR 175.105), and rubber arti 177.2600).

### INDUSTRIAL APPLICATIONS

DOWICIDE 1E Antimicrobial may be used during the product household, institutional and industrial uses.

#### Application: Concrete Admixes

Purpose: To control the growth of fungi and bacteria in conc Suggested Concentration of DOWICIDE 1E Antimicrobial 0.01 - 0.6 % by weight of admixture.

How To Apply: Add at a suitable point during the manufactu admixture. Conversion to a water dilutable alkaline concentr hydroxide is recommended.

#### Application: Ceramics

Purpose: To prevent decomposition of ceramic glazes and c Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05 - 0.1% by wt of glaze or slip formulation.

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

#### Application: Metal Working Fluids

Purpose: To prevent decomposition of fluids prepared from oil concentrates.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.1 - 1.5 % by wt of diluted concentrate.

How To Apply: Add to water -emulsifiable oil concentrate dt process.

#### Application: Polishes

Purpose: For shelf life preservation of automobile polishes a compounds.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.25% by wt of polish; 0.25 - 0.50 % by wt of polishing com

How To Apply: Add to polish or compound during formulati

#### Application: Photographic Solutions

Purpose: To control microbial growth in photographic solutio Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05 - 0.5 % by wt of the photographic solution or emulsion.

How To Apply: Mix with other photographic chemicals durin processing or use.

### APPLICATIONS NOT REGISTERED FOR USE IN CALIFOR

#### Application: Glues and Adhesives

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

Suggested Concentration of DOWICIDE 1E Antimicrobial

Glues; Bone/plant 0.1 - 0.15%

Leather, skin & fish 0.15 - 0.4%

Starch based liquid 0.1 - 0.25%

Starch based solid 0.15 - 1.0%

Albumin containing 0.2 - 0.4%

Adhesives; cellulose/dextrin 0.1 - 0.3%

Polymer dispersion based 0.1 - 0.3%

Casein Containing 0.2 - 0.4%

How To Apply: Add to organic portion of the ingredients, m formulation.

#### Application: Gaskets

Purpose: To preserve felt gaskets.

Suggested Concentration of DOWICIDE 1E Antimicrobial

1% by wt of organic solvent.

How To Apply: Saturate felt with solution of DOWICIDE 1E , volatile solvent such as alcohol or Stoddard solvent.

#### Application: Slurries

Purpose: To control the growth of fungi and bacteria in the aqueous based slurries and dispersed pigments: clay, calc kaolin and other filler suspensions.

Suggested Concentration of DOWICIDE 1E Antimicrobial

0.05 - 0.9 % by weight of slurry.

How To Apply: Add at a suitable point during the manufact loading/filling or shipment of the slurry; if needed, add caus water dilutable alkaline concentrate.

#### Application: Leather

Purpose: To impart temporary mold resistance to shoe liner gloves etc.

Suggested Concentration of DOWICIDE 1E Antimicrobial

1.5 % by wt of leather.

How To Apply: Add from petroleum and vegetable oil formu

### DIRECTIONS FOR USE

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

Only for (1) 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.

DOWICIDE 1E Antimicrobial, when used according to good manufacturing practices, meets the requirements of the FDA for use in defoaming agents (21 CFR 176.210), adhesives (21 CFR 175.105), and rubber articles (21 CFR 177.2600).

#### INDUSTRIAL APPLICATIONS

DOWICIDE 1E Antimicrobial may be used during the production of products for household, institutional and industrial uses.

##### Application: Concrete Admixes

Purpose: To control the growth of fungi and bacteria in concrete admixtures. Suggested Concentration of DOWICIDE 1E Antimicrobial 0.01 - 0.6 % by weight of admixture.

How To Apply: Add at a suitable point during the manufacture of the admixture. Conversion to a water dilutable alkaline concentrate using sodium hydroxide is recommended.

##### Application: Ceramics

Purpose: To prevent decomposition of ceramic glazes and clay slips. Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05 - 0.1% by wt of glaze or slip formulation.

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

##### Application: Metal Working Fluids

Purpose: To prevent decomposition of fluids prepared from water emulsifiable oil concentrates.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.1 - 1.5 % by wt of diluted concentrate.

How To Apply: Add to water -emulsifiable oil concentrate during formulating process.

##### Application: Polishes

Purpose: For shelf life preservation of automobile polishes and polishing compounds.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.25% by wt of polish; 0.25 - 0.50 % by wt of polishing compound.

How To Apply: Add to polish or compound during formulating process.

##### Application: Photographic Solutions

Purpose: To control microbial growth in photographic solutions and emulsions. Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05 - 0.5 % by wt of the photographic solution or emulsion.

How To Apply: Mix with other photographic chemicals during manufacture, processing or use.

#### APPLICATIONS NOT REGISTERED FOR USE IN CALIFORNIA

##### Application: Glues and Adhesives

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

Suggested Concentration of DOWICIDE 1E Antimicrobial

Glues; Bone/plant 0.1 - 0.15%

Leather, skin & fish 0.15 - 0.4%

Starch based liquid 0.1 - 0.25%

Starch based solid 0.15 - 1.0%

Albumin containing 0.2 - 0.4%

Adhesives; cellulose/dextrin 0.1 - 0.3%

Polymer dispersion based 0.1 - 0.3%

Casein Containing 0.2 - 0.4%

How To Apply: Add to organic portion of the ingredients, mix then add to the formulation.

##### Application: Gaskets

Purpose: To preserve felt gaskets.

Suggested Concentration of DOWICIDE 1E Antimicrobial 1% by wt of organic solvent.

How To Apply: Saturate felt with solution of DOWICIDE 1E Antimicrobial in a volatile solvent such as alcohol or Stoddard solvent.

##### Application: Slurries

Purpose: To control the growth of fungi and bacteria in the following aqueous based slurries and dispersed pigments: clay, calcium carbonate, kaolin and other filler suspensions.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05 - 0.9 % by weight of slurry.

How To Apply: Add at a suitable point during the manufacture, container loading/filling or shipment of the slurry; if needed, add caustic to make a water dilutable alkaline concentrate.

##### Application: Leather

Purpose: To impart temporary mold resistance to shoe liners, hat bands, gloves etc.

Suggested Concentration of DOWICIDE 1E Antimicrobial 1.5 % by wt of leather.

How To Apply: Add from petroleum and vegetable oil formulation.

#### APPLICATIONS NOT REGISTERED FOR USE IN CALIFORNIA - continued

##### Application: Wood and wood products

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

Suggested Concentration of DOWICIDE 1E 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. Conversion to a water dilutable alkaline concentrate, using sodium hydroxide or other base, is recommended.

##### Application: Stains and Paints

Purpose: To control the growth of fungi and bacteria during manufacture or storage in pigments and fillers used in the following systems: latex-based, casein, oil-containing, alkyd resin-based, or synthetic resin.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.1-0.5% by weight of materials treated.

How To Apply: Add directly to pigment or filler or dissolve in suitable solvent. Thoroughly mix. Evaluate for potential discoloration.

##### Application: Textiles

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

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.5-5.0% by weight of materials treated.

How To Apply: Add as solution by dissolving in suitable solvent.

##### Application: Textile auxiliaries (sizing agents, finishing agents, spinning preparations, wetting agents)

Purpose: To preserve processing materials.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05-0.25% by wt of materials treated.

How To Apply: Add as solution by dissolving in suitable solvent.

##### Application: Dyes, Tints, Pigments and Filler Suspensions

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

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05-0.2% by wt of materials treated.

How To Apply: Add at a suitable point during the manufacture, using dispersing agents if needed.

##### Application: Biopolymers

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

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05-0.2% by wt of materials protected.

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

##### Application: Fire Extinguishing Medium

Purpose: To preserve solutions.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.1-0.3% by wt of solution.

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 1E Antimicrobial 0.05-0.4% by wt of solution.

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

##### Application: Wax emulsions & Polishes

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

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05-0.5% by wt of emulsion.

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

##### Application: Paper slurries and auxiliaries

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

Suggested Concentration of DOWICIDE 1E Antimicrobial

Auxiliaries: 0.05-0.3% by wt.

Paper slurries: 0.07-0.1% by wt.

How To Apply: Add as a solution by dissolving in a suitable solvent.

##### 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 1E Antimicrobial 0.1-0.5% by wt of material to be protected.

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

##### Application: Inks

Purpose: For shelf-life preservation.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.018-0.36% by wt of material treated.

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

##### Application: Other construction applications

Purpose: To protect the following from deterioration during manufacture, storage and service life: plasters, caulking materials, concrete and masonry additives.

Suggested Concentration of DOWICIDE 1E Antimicrobial 0.05-0.50% by wt of material treated.

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