

464-78

01/19/2006

1/2

175 CRCG LJ 3/29/05  
17" x 6 3/4" x 29.1/2

**ACCEPTED**  
JAN 19 2006  
Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. **464-78**



# DOWICIDE<sup>®</sup> 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 Ingredients: ..... 28.3%  
Total ..... 100%  
E.P.A. Registration No. 464-78 E.P.A. Est. 39967-DEU-001  
Superscript used corresponds to alpha/numeric lot number.

**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

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

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>
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	

### 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 - Completely empty bag into application equipment. Then 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.

### NOTICE

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

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

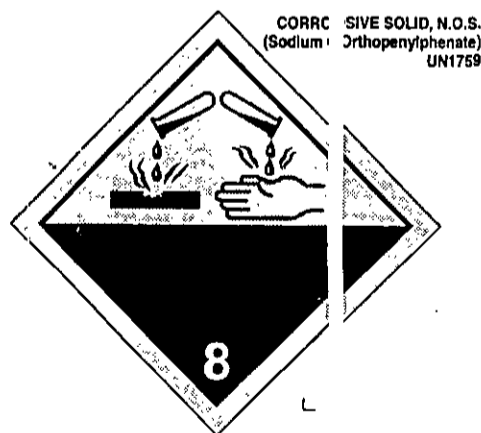
### THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

(989) 636-4400

\* Trademark of THE DOW CHEMICAL COMPANY

Made in Germany



Actual SIZE

175 CRG LJ 3/23/05  
17" x 6 3/4" x 29.1/2

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with the 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 data 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. Such cloudiness may be minimized by adding sufficient caustic (sodium hydroxide).

DOWICIDE A Antimicrobial, when used according to good manufacturing practices, meets the requirements of the FDA for use in resinous and polymeric coatings: cat and cements [21 CFR 175.300(b)(3)(i)(iii)], 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)].

**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 0.05-0.09% DOWICIDE A by wt in an aqueous solution or in an approved wax emulsion. Apply by spraying, dipping, or flooding.

**INDUSTRIAL APPLICATIONS**

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

Application	Purpose	Suggested Concentration of DOWICIDE A	How to Apply
Adhesives	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.	0.05-1.0% by wt of DOWICIDE A	Add as a concentrated aqueous solution to the formulation.
Ceramic Glazes and Clay Slips	To prevent bacterial decomposition.	0.05-0.19% by wt of formulation.	Add to ingredients of formulation as they are charged into ball mill.
Chemical Toilet	To control odors in chemical toilets on buses, trains, and airplanes.	1.0-1.5 oz per quart of water.	Disolve antimicrobial in water.
Construction Material Preservation NOT REGISTERED FOR THIS USE IN CALIFORNIA	To control the growth of fungi and bacteria in building materials such as mastics, caulks, joint cements, spackling, grouting and concrete admixtures.	0.025 - 0.4% by wt of formulation.	Add at a suitable point during the manufacture. DOWICIDE A may be pre-mixed with water prior to addition to reduce incorporation time into the formulation.
Fire Extinguisher Solutions	To preserve foam-type solutions.	0.25-0.5% by wt of solution.	Add antimicrobial to solution.
Floor Wax Emulsions	For shelf preservation.	Add 0.1-0.5% by wt of emulsion.	Add to water phase of emulsion during formulating process.
Ink	For shelf preservation of dyes-based watercolor printing inks.	0.025 - 0.5% by wt of formulation.	Add as a concentrated aqueous solution to the formulation.
Polymer Latex Dispersions and Emulsions NOT REGISTERED FOR THIS USE IN CALIFORNIA	To preserve synthetic and natural polymer latexes in manufacture and storage, including acrylic, styrene-butadiene, ethylene/vinylacetate, vinylacrylic and bi-polymer based systems.	Add 0.1 - 1.0% by wt of emulsion.	Add to the latex or solution slowly with agitation by pre-mixing into a concentrated aqueous solution.
Laundry Starch	To preserve liquid starch during shelf and use life.	0.025 - 0.2% by wt of formulation.	Add as a concentrated aqueous solution to the formulation.
Leather	To prevent sprague of hair on lugs in soaking liquors to prevent deterioration of tanning and finishing formulations.	One part per 15 parts of water for soaking liquors 0.5% to 1.0% by wt for dyes, dressings, and finishes.	Add as a concentrated aqueous solution to the formulation.
Metalworking Fluids NOT REGISTERED FOR THIS USE IN CALIFORNIA	To prevent decomposition of oils, emulsifying agents, and other components.	Add DOWICIDE A to yield 0.05 to 0.5% by wt in diluted metalworking fluid.	Add as a concentrated aqueous solution to the use dilution of the metalworking fluid or to the concentrate prior to dilution.
Paint	For preservation of decomposable raw material solutions or dispersions during paint manufacturing or storage. For shelf preservation of water-based paints.	Minimum of 0.5% by wt of DOWICIDE A.	Add as a concentrated aqueous solution to the formulation.
Polyvinyl Alcohol	To preserve solutions of the alcohol.	0.6-0.8% by wt of solution.	Add antimicrobial to solution.
Pulp and Paper	To preserve dyes, stains, and printing colors based on starch, animal and vegetable protein, and latex.	0.1-1.0% by wt of material preserved.	Add as a concentrated aqueous solution.
Stumps NOT REGISTERED FOR THIS USE IN CALIFORNIA	To control the growth of fungi and bacteria in aqueous based stumps.	Add 0.015 - 0.6% by wt of slurry.	Add as a concentrated aqueous solution at a suitable point during the manufacture, container filling, shipment or storage of the slurry.
Textiles	To preserve processing materials and finished yarns and cloth during storage.	0.1-0.75% by wt of materials treated.	Add as a concentrated aqueous solution.
Wood and wood products NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect from mold, mildew, and sapstain.	Construction woods: 1-4% by wt of solution. Poles, fuel and vegetable poles: 1-3% by wt of solution.	Apply as an aqueous dip, or spray by preparing an aqueous solution.
Polymers and plastics NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect the following systems from deterioration during manufacture, storage and service life: acrylic, PVC, polypropylene (PP), methacrylic-based styrene-butadiene, polyester based, polyurethane-based, other polymer dispersions, rubber.	0.15-0.7% by wt of material to be protected.	Add at a suitable point during the manufacture.
Bopolymers NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect from deterioration during manufacture, storage, and service life.	0.15-0.3% by wt of material to be protected.	Add at a suitable point during the manufacture.
Photographic solutions NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect from deterioration during manufacture, storage, and service life.	0.1-0.4% by wt of material to be protected.	Add at a suitable point during the manufacture.
Dyes, Tints, Pigments and Fiber Suspensions NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect from deterioration during manufacture, storage, and service life.	0.07-0.3% by wt of materials treated.	Add at a suitable point during the manufacture.
Clearing Solutions NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect from deterioration during manufacture, storage, and service life.	0.1-0.8% by wt of solution.	Add at a suitable point during the manufacture.
Wax Emulsions and Polishes NOT REGISTERED FOR THIS USE IN CALIFORNIA	To protect from deterioration during manufacture, storage, and service life.	0.1-0.6% by wt of emulsion.	Add at a suitable point during the manufacture.

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.

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