

Pm31

464-78

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DOW
DOWICIDE A



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 orthophenylphenate, tetrahydrate 97%
Inert Ingredient(s): 3%
E.P.A. Registration No. 464-78 E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

**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

STATEMENTS OF PRACTICAL TREATMENT: In case of eye contact, immediately wash eyes with flowing water for 15 minutes. Call a physician. In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes and get medical attention if irritation persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

Anyone experiencing noticeable ill effects from breathing the dust of this material should be removed to fresh air.

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.

In case of an emergency endangering life or property involving this product, call collect 517-536-4400

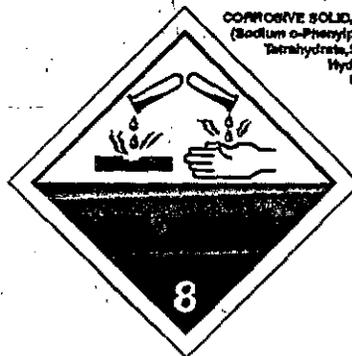
NOTICE
Do Not Ship or Store with Food, Feeds, Drugs, or Clothing.

NET WT. : 22.68 kg / 50.00 lb

THE DOW CHEMICAL COMPANY
Midland, MI 48674 U.S.A.

1-800-254-CHEM

* Trademark of THE DOW CHEMICAL COMPANY



CORROSYVE SOLID, H.O.S.
(Sodium O-Phenylphenate
Tetrahydrate, Sodium
Hydroxide)
UN1759

ACCEPTED

DEC 12 1996

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

**DOWICIDE A
ANTIMICROBIAL**



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DOWICIDE* A ANTIMICROBIAL

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 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; can and cements [21 CFR 175.300(b)(3)(food)]; adhesives [21 CFR 175.105(c)(9)]; animal glue [21 CFR 175.312(d)(3)]; silicon dioxide matrix coatings [21 CFR 175.390(b)(4)]; 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)]; deicing 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 177.121(c)(9)].

DOWICIDE A Antimicrobial also appears in the "List of Chemical Compounds Authorized for Use Under USDA Inspection and Grading Programs" as a sanitizer for all surfaces. After using the product, the treated surfaces must be rinsed thoroughly with potable water before operations are resumed.

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 0.05-3.00% DOWICIDE A by wt in an aqueous solution or in an approved wet emulsion. Apply by spraying, dipping, or flooding.

INDUSTRIAL APPLICATIONS

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.	0.05-0.10% by wt of formulation.	Add to ingredients of formulation as they are charged into ball mill.
Chemical Toilets	To control odors in chemical toilets on buses, trains, and airplanes.	1.0-1.5 oz per quart of water.	Dissolve antimicrobial in water.
Construction Materials	To control mold growth on inert surfaces such as asbestos shingles, tile roofs, brick walls, and concrete blocks.	1.0% by wt in water.	Rinse previously cleaned surface with solution of antimicrobial.
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.	0.1-0.5% by wt of emulsion.	Add to water phase of emulsion during formulating process.
Ink	For shelf preservation of dextrin-based watercolor printing inks.	0.5% by wt of formulation.	Add as a concentrated aqueous solution to the formulation.
Laundry Starch	To preserve liquid starch during shelf and use life.	0.2% by wt of formulation.	Add as a concentrated aqueous solution to the formulation.
Leather	To prevent slippage of hair on furs in soaking liquors; to prevent deterioration of tanning and finishing formulations.	One part per 15 parts of water for soaking liquors. 0.05-0.1% by wt for pastes, dressings, and finishes.	Add as a concentrated aqueous solution to the formulation.
Metaworking Fluids	To prevent decomposition of oil-emulsifying agents, and other components.	0.1 to 1.0% by wt of formulation.	Add as a concentrated aqueous solution to the use dilution of the metaworking fluid.
Paint	For preservation of decomposable raw material solutions or dispersions during storage. For shelf preservation of protein-based latex paints.	Minimum of 0.8% by wt of DOWICIDE A.	Add as a concentrated aqueous solution to the formulation.
Polyvinyl Alcohol	To preserve solutions of the alcohol.	0.5-0.8% by wt of solution.	Add antimicrobial to solution.
Pulp and Paper	To preserve coatings, sizings, 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.
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.

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 Disposal - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or residue 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:

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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DOWICIDE* A ANTIMICROBIAL

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STATEMENTS OF PRACTICAL TREATMENT:
In case of eye contact, immediately wash eyes with flowing water for 15 minutes. Call a physician.
In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes and get medical attention if irritation persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

Anyone experiencing noticeable ill effects from breathing the dust of this material should be removed to fresh air.

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.

In case of an emergency endangering life or property involving this product, call collect 517-636-4400

NOTICE

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

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 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: 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)].

DOWICIDE A Antimicrobial also appears in the "List of Chemical Compounds Authorized for Use Under USDA Inspection and Grading Programs" as a sanitizer for all surfaces. After using the product, the treated surfaces must be rinsed thoroughly with potable water before operations are resumed.
NOTE: PRODUCERS USING THIS PRODUCT TO FORMULATE PESTICIDES ARE RESPONSIBLE FOR OBTAINING EPA REGISTRATION FOR THEIR FORMULATED PRODUCTS.

POSTHARVEST CITRUS FRUITS
For postharvest use 0.05-3.09% solution or in an spraying, dipping, STORAGE AND Do not contaminate or disposal.

Storage: Keep package tight. Pesticide Disposal: Pesticide wastes disposal of excess a violation of Federal law. Contact your State Agency, or the nearest EPA Regional Office. Container Disposal: Completely empty. Then dispose of by incineration, or by burning, if burned.

Notice: Seller warrants chemical description reasonably fit for use (except uses for which required data are not submitted in accordance with 40 CFR 155.155). THE WARRANTIES TO THE PRODUCT ARE LIMITED TO THE PRODUCT AS SHOWN AND DESCRIBED. NO WARRANTIES OR REPRESENTATIONS ARE MADE FOR OTHER USES AND WARRANTIES.

INDUSTRIAL APPLICATIONS

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 Toilets	To control odors in chemical toilets on buses, trains, and airplanes.	1.0-1.5 oz per quart of water.	Dissolve antimicrobial in water.
Construction Materials	To control mold growth on inert surfaces such as asbestos shingles, tile roofs, brick walls, and concrete blocks.	1.0% by wt in water.	Rinse previously cleaned surface with solution of antimicrobial.
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.	0.1-0.5% by wt of emulsion.	Add to water phase of emulsion during formulating process.
Ink	For shelf preservation of dextrin-based watercolor printing inks.	0.5% by wt of formulation.	Add as a concentrated aqueous solution to the formulation.
Laundry Starch	To preserve liquid starch during shelf and use life.	0.2% by wt of formulation.	Add as a concentrated aqueous solution to the formulation.
Leather	To prevent slippage of hair on furs in soaking liquors; to prevent deterioration of treading and finishing formulations.	One part per 15 parts of water for soaking liquors, 0.05-0.1% by wt for pastes, dressings, and finishes.	Add as a concentrated aqueous solution to the formulation.
Metalworking Fluids	To prevent decomposition of oils, emulsifying agents, and other components.	0.1 to 1.0% by wt of formulation.	Add as a concentrated aqueous solution to the use solution of the metalworking fluid.
Paint	For preservation of decomposable raw material solutions or dispersions during storage. For shelf preservation of protein-based latex paints.	Minimum of 0.6% by wt of DOWICIDE A.	Add as a concentrated aqueous solution to the formulation.
Polyvinyl Alcohol	To preserve solutions of the alcohol.	0.8-0.8% by wt of solution.	Add antimicrobial to solution.
Pulp and Paper	To preserve coatings, sizings, 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.
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.

NET WT. : 22.68 kg / 50.00 lb

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* A ANTIMICROBIAL

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HAZARDS
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Food, Feeds, Drugs, or

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POSTHARVEST PRESERVATION-Pears AND CITRUS FRUITS
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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.

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Leather	To prevent slippage of hair on furs in soaking liquors; to prevent deterioration of treading and finishing formulations.	One part per 15 parts of water for soaking liquors. 0.05-0.1% by wt for pastes, dressings, and finishes.	Add as a concentrated aqueous solution to the formulation.
Metalworking Fluids	To prevent decomposition of oils, emulsifying agents, and other components.	0.1 to 1.0% by wt of formulation.	Add as a concentrated aqueous solution to the use dilution of the metalworking fluid.
Paint	For preservation of decomposable raw material solutions or dispersions during storage. For shelf preservation of protein-based latex paints.	Minimum of 0.6% 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 coatings, sizings, 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.
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.

CORROSIVE SOLID, N.O.S.
(Sodium o-Phenylphenate Tetrahydrate, Sodium Hydroxide)
UN1759



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Midland, MI 48674 U.S.A.

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TPC

~~NOT REVIEWED~~
In Accordance with PR Notice 82-2
Based On ~~Product~~ Labeling Dated

12-12-96