

**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.

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™ 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	
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • 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.
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



LICENSED

PERIOD **2015-2017** LIC. NO.

9197.195



LICENSED

PERIOD **2012-2014** LIC. NO.

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: 55.12 lb / 25 kg
LOT

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.