

# DOWICIL<sup>®</sup> 150 ANTIMICROBIAL

For The Control of Bacteria and Fungi in Industrial Applications

**For Industrial Use Only**

Active Ingredients:  
 Clo-trimer of 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane ..... 96%  
 Inert Ingredients: ..... 4%  
**TOTAL** ..... 100%  
 E.P.A. Registration No. 454-327 E.P.A. Est. 454-CA-1047  
 Superscript used corresponds to alpha/numeric in lot number

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**PRECAUTIONARY STATEMENTS  
 HAZARD TO HUMANS AND DOMESTIC ANIMALS**

**WARNING:** Maybe fatal if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Handlers must wear: chemical-resistant gloves (such as Nitrile, butyl, Neoprene, and/or Barrier -4 laminate).  
 Physical or Chemical Hazards  
**FLAMMABLE** - Keep Away From Heat, Sparks, and Open Flame

FIRST AID	
<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 swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> </ul>
<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. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p><b>IN CASE OF AN EMERGENCY</b> involving fire or property involving this product, call collect 800-438-4488. Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p>	
<b>NOTE TO PHYSICIAN:</b>	<p>Possible mucosal damage may contraindicate the use of gastric lavage.</p>

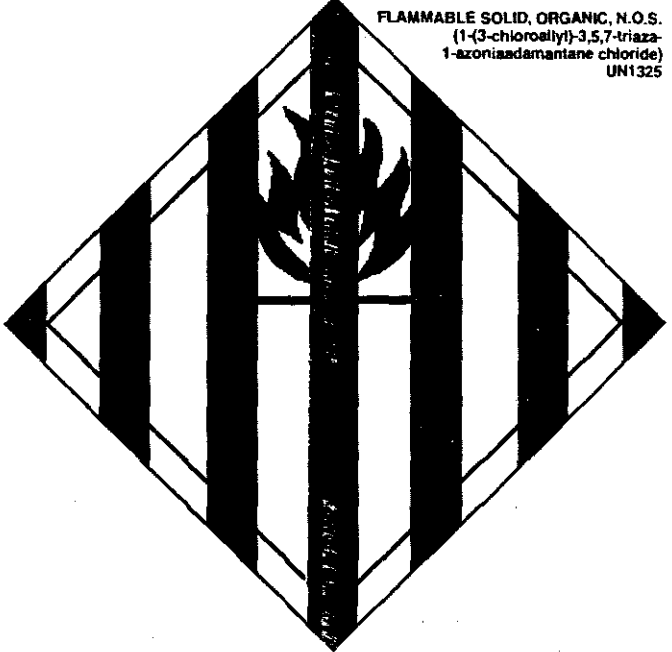
**Environmental Hazards:**  
 This pesticide is toxic to fish and invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, bays or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit 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 sanitary authority. For guidance, contact your State Water Board or Regional Office of the EPA.  
**STORAGE AND DISPOSAL:**  
 DO NOT CONTAMINATE with food, or feed by storage or disposal. Storage: store in a dry place. Store between 50°-90°F. Keep container tightly closed when not in use.  
**Waste Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of empty pesticide spray cans, or a mixture 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 Operations at the nearest EPA Regional Office for guidance.  
**Container Disposal:** Completely empty, clean by shaking and tapping sides, and burn in metal chipping furnace. Empty residue into application equipment. Then dilute or clean in a sanitary manner or by incineration if allowed by State and local authorities. Dispose of drum in the same manner.

**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.  
**DOWICIL 150 Antimicrobial**, when used according to good manufacturing practices, meets the requirements of Food Additive Regulations 21 CFR 175.105 for use as a preservative in adhesives, 21 CFR 176.168 for preservation of polyethylene resins in contact with dry bulk foods, 21 CFR 176.170 for preservation of components of paper and pulp-based intended for use in contact with aqueous and fatty foods, and 21 CFR 176.180 for preservation of components of paper and pulp-based intended for use in contact with dry foods.  
**DOWICIL 150** may be used as a preservative (great ingredient) in water-based formulations which do not come in contact with food, feed crops, livestock, and water supplies, and which are not applied to humans or feed producing animals, in concentrations not to exceed 0.14% by wt of the total formulation.  
**DETERGENTS**  
 To prevent bacterial deterioration during storage and to increase the shelf life of insoluble particulates, add 0.05-0.15% DOWICIL 150 Antimicrobial by wt of the formulation. Add as an aqueous solution.

**FLOOR WAX EMULSIONS AND FLOOR POLISHES**  
 To preserve water-based waxes and polishes during storage, add 0.05-0.15% DOWICIL 150 Antimicrobial by wt of the formulation. Add as an aqueous solution.  
**ALCOHOL:**  
 To prevent pH drop, odor, gas formation, change in viscosity, and loss of alcohol strength during manufacture, storage, and service, add 0.05-0.5% DOWICIL 150 Antimicrobial by wt of the formulation. Add as an aqueous solution.  
**Use in the following types of adhesives:**  
 Starch based (corn, tapioca, cass, potato, etc.)  
 Add 0.1-0.2% DOWICIL 150 by wt as a concentrated aqueous solution.  
 Protein-derived (animal glue such as hide, bone, fish, blood, and gelatin)  
 Add 0.1-0.5% DOWICIL 150 by wt as a concentrated aqueous solution.  
**Natural Gums (arabic, gum, and tragacanth)**  
 Add 0.05-0.2% DOWICIL 150 by wt as a concentrated aqueous solution.  
 Highly concentrated gums do not readily support bacterial or fungal growth; consequently, higher concentrations of DOWICIL 150 are required in the less concentrated gum solutions.  
**Latex Rubber Latex**  
 Add 0.05-0.15% DOWICIL 150 by wt as a concentrated aqueous solution.  
**Polyvinyl Acetate Emulsions**  
 Add 0.05-0.15% DOWICIL 150 by wt as a concentrated aqueous solution.  
**Synthetic Resin Adhesives**  
 Synthesis Gums (e.g., METHOCCEL<sup>®</sup> methylcellulose gums) and other Synthetic Resin Adhesives  
 Add 0.05-0.15% DOWICIL 150 by wt as a concentrated aqueous solution.  
**Synthetic adhesive formulations** sometimes incorporate natural substances such as starches or other natural materials. To preserve these formulations, use the level of antimicrobial recommended for the adhesive containing only the natural material.  
**LAUNDRY STARCH**  
 To increase shelf and use life of liquid formulations, add 0.05-0.15% DOWICIL 150 Antimicrobial by wt of the formulation. Add as an aqueous solution.  
**CONSTRUCTION MATERIALS**  
 To increase shelf and use life of caulking, grouting, and spackling compounds, and joint cements, add 0.05-0.15% DOWICIL 150 Antimicrobial by wt of the formulation. Method of application depends on the type of formulation, and may be made dry or as a concentrated aqueous solution.

**NOTE: DOWICIL 150 IS INCOMPATIBLE WITH CASEIN IN BOTH LIQUID AND GEL SYSTEMS, AND WITH SOME TYPES OF AMINE-EMULGIFIED LAYS.**  
**INKS**  
 To increase the shelf life of fountain pen, ball, and paper printing inks, add 0.15-0.2% DOWICIL 150 Antimicrobial by wt of the ink. Add as an aqueous solution.  
**LATEX EMULSIONS**  
 To prevent bacterial deterioration during manufacture, storage, and storage of raw emulsions, add 0.05-0.15% DOWICIL 150 Antimicrobial by wt of the total emulsion. Add as an aqueous solution.  
**METALWORKING FLUIDS**  
 To control bacterial contamination that produces odors, rancidity, acidity, and deterioration of valuable cutting oils, add 0.1-0.2% DOWICIL 150 Antimicrobial by wt of the formulation. Add in the water phase of the cutting fluid during formulation.  
**PAINT**  
 To prevent cellulose-thickened latex paints in the can, add 0.05-0.2% DOWICIL 150 Antimicrobial by wt of the formulation. Add dry or as an aqueous solution during any phase of the formulation process to the aqueous phase raw materials. DOWICIL 150 has no effect on the viscosity, stability, and other physical properties of the paint formulation or on the colorfastness of the paint films.  
**PULP AND PAPER**  
 To prevent changes, discolor, and staining colors based on starch and lignin (natural and synthetic) from bacterial and fungal attack, add 0.1-0.2% DOWICIL 150 Antimicrobial by wt of the formulation. Add as an aqueous solution. These concentrations will protect against bacterial and fungal growth for 3-6 days. Longer periods of preservation require higher concentrations.  
**TEXTILES**  
 To prevent spoilage of spinning emulsions for rayon and finishing solutions, and to prevent viscosity and pH changes in finished fabrics caused by bacteria and fungi, add 0.1-0.2% DOWICIL 150 Antimicrobial by wt of the emulsion. Add as an aqueous solution.  
**Notes:** Seller warrants that the product conforms to its chemical description as contained on this label and is responsible for the purposes stated on this label 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 FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.  
 302 4252474 202/2326X  
 24896-L3 (P.O.S. ONLY)



**FLAMMABLE SOLID, ORGANIC, N.O.S.**  
 (1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride)  
 UN1325

NET WT. : 22.68 kg / 50 lb

**BATCH**

COLORS: PMS 485 Red, PMS 294 Blue, PMS Black

ACCEPTED  
 APR 22 2002

Antimicrobial, Fungicide, and  
 Disinfectant for the  
 Laundry  
 464-327

464-327

4-22-2002

11

**DOW**  
**THE DOW CHEMICAL COMPANY**  
 Midland, Michigan 48674 U.S.A.  
 1-800-258-CH2M  
 \* Trademark of THE DOW CHEMICAL COMPANY