

**KEEP OUT OF REACH OF CHILDREN
WARNING**

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

WARNING: May be 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.

PHYSICAL OR CHEMICAL HAZARDS
FLAMMABLE - Keep Away From Heat, Sparks, and Open Flame

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Handlers must wear: chemical-resistant gloves (such as Nitrile, butyl, Neoprene, and/or Barrier -4- laminate).

ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish and invertebrates. 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.

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

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: Store in a dry place. Store below 60°C. Keep container 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 HANDLING
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 drum 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 drum for recycling, if available. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

Notice: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

DOWICIL™ 150 Antimicrobial

For The Control of Bacteria and Fungi in Industrial Applications

FOR INDUSTRIAL USE ONLY

Active Ingredient(s):

Cis-isomer of 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	96%
Inert Ingredient(s):	4%
Total:	100%

FIRST AID	
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 swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.
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.• Call a Poison Control Center or doctor for treatment advice.
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. 464-327

E.P.A. Est. 83434-IL-001

Produced for:



The Dow Chemical Company

Midland, Michigan 48674 U.S.A.
(989)636-4400

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow



STATE OF HAWAII
Department of Agriculture

ACCEPTED
LICENSE NO. 9197.255

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 for adhesives; 21 CFR 177.1680 for preservation of polyurethane resins in contact with dry bulk foods; 21 CFR 176.170 for preservation of components of paper and paperboard intended for use in contact with aqueous and fatty foods; and 21 CFR 176.180 for preservation of components of paper and paperboard intended for use in contact with dry foods.

DOWICIL 150 may be used as a preservative (inert ingredient) in water-based formulations which do not come in contact with food, food crops, feedstuffs, and water supplies, and which are not applied to humans or food 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 biodegradable surfactants, add 0.03-0.1% 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.

ADHESIVES

To prevent pH drop, odor, gas formation, change in viscosity, and loss of adhesives strength during manufacture, storage, and service, add 0.05-0.5% DOWICIL 150 Antimicrobial by wt of the formulation. Add as a concentrated aqueous solution. For use in the following types of adhesives:

Starch Based (corn, tapioca, sago, potato, etc.) Add 0.1-0.2% DOWICIL 150 by wt as a concentrated aqueous solution.

Protein-Derived (animal glues 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, guar, 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.

Natural 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 Gums (e.g., METHOCEL™ methylcellulose gums) and Other Synthetic-Based 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 proteinaceous materials. To preserve these formulations, use the level of preservative 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 0.06-0.15% 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 DRY SYSTEMS, AND WITH SOME TYPES OF AMINE MODIFIED CLAYS.

INKS

To increase the shelf life of fountain pen, fabric, 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, transit, 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 destruction of soluble cutting oils, add 0.1-0.2% DOWICIL 150 Antimicrobial by wt of the formulation. Add to the water phase of the cutting fluid during formulation.

PAINT

To preserve 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 formulating process in 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 protect coatings, finishes, and printing colors based on starch and latex (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 printing pastes caused by bacteria and fungi, add 0.1-0.2% DOWICIL 150 Antimicrobial by wt of the formulation. Add as an aqueous solution.

NET WT: 25 lb / 11.3 kg
BATCH: