PM 34

464-327

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9/30/97 Page 195 ACCEPTED SEP 30 1997 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg No

DOWICIL* 150 Antimicrobial

For The Control of Bacteria and Fungi in Industrial Applications

For Industrial Use Only

Active Ingredients:

KEEP OUT OF REACH OF CHILDREN

WARNING

Precautionary Statements

Hazards to Humans and Domestic Animals

HARMEULIE ABSORBED IHROUGHISKIN • MAY BE HARMFUL IF

SWALLOWED

Avoid Skin Contact Avoid Contact With Skin Eyes and Clothing • Chemicalresistantigloves must be worn when handling • Wash Thoroughly With Soap and Water Atter Handling

Statements of Practical Treatment

In case of skin contact, remove contaminated clothing and wash skin with plenty of water. Wash clothing before reuse. In case of eye contact, irrigate eyes with flowing water for 15 minutes. If irritation results, get medical attention. 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.

Physical or Chemical Hazards

FLAMMABLE • Keep Away From Heat, Sparks, and Open Flame

Environmental Havards

This product is toxic to fish and invariebrates. Do not discharge althum containing this product into lakes areams, ponds, estuartes, aceans or other waters inless 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 sever systems without previously notified by local sewage treatment plant authority. For guidance contact you State Do not discharge effluent contained plant authority. For guidance contact, you State Doard or Regional Office of the EPA.

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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

FOR USE IN MANUFACTURING PROCESSES

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the 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 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 Antimicrobial may be used as a preservative (inert ingredient) in waterbased 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 adhesive strength during manufacture, storage and service, add 0.05 - 0.5% DOWICIL 150 Antimicrobial by wt to 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 Antimicrobial by wt as a concentrated aqueous solution. LABEL DRAFT DOWICIL 150 Antimicrobial July 30, 1997 Page 3 of 5

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Protein-Derived (animal glues such as hide, bone, fish, blood, and gelaten) # - 327 Add 0.1 - 0.5% DOWICIL, 150 Antimicrobial by wt as a concentrated aqueous solution.

Natural Gums (arabic, guar, and tragacanth)

Add 0.05-0.2% DOWICIL 150 Antimicrobial by wt as a concentrated aqueous solution. Highly concentrated gums do not readily support bacterial or fungal growth: consequently, higher concentrations of DOWICIL 150 Antimicrobial are required in the less concentrated gum solutions.

Natural Rubber Latex

Add 0.05 - 0.15% DOWICIL 150 Antimicrobial by wt as a concentrated aqueous solution.

Polyvinyl Acetate Emulsions

Add 0.05 - 0.15% DOWICIL 150 Antimicrobial 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 Antimicrobial 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.

NOTE: DOWICIL 150 ANTIMICROBIAL IS INCOMPATIBLE WITH CASEIN IN BOTH LIQUID AND DRY SYSTEMS, AND WITH SOME TYPES OF AMINE-MODIFIED CLAYS.

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, 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.

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INKS

To increase the shelf life of water-based 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 Antimicrobial 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.

STORAGE AND DISPOSAL

STORAGE

If the entire contents of the drum are not used upon opening, reseal the polyethylene liner to keep moisture from caking the product. Water solutions of DOWICIL 150 Antimicrobial should be kept below 77°F (25°C).

Note: To avoid decomposition (which will release smoke and flammable vapors), store in a cool, dry place below 120°F (49°C). Do not store near flammable materials.

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DISPOSAL

Prohibitions - Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide Disposal - Wastes resulting from the use of this product may be disposed of on site or at an approved waste-disposal facility.

Container Disposal - Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of drum in the same manner.

Notice: Seller warrants that the product conforms to its chemical description and as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. IFHE, WARRANTHESIMADE INNUELISIPARAGRAPHICARE SEMIER'S SOLE WARRANTHES MULTI RESPECT TO THE PRODUCT AND AREMADED ARE SEMIER'S SOLE WARRANTHES EXCLUDE ANM IMPLIED WARRANTHES OF MERCEDANICABILITY OR OF HITNESS FOR A PARTICULAR PURPOSE AND AITH OF HIRTEXPRESS OR IMPLIFY REPRESENTATIONS AND WARRANTHES

NET

kg/

lb

The Dow Chemical Company Midland, MI 48674 U.S.A.

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