

464-672

1-14-2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

January 14, 2003

Allen F. Bollmeier  
Regulatory Specialist  
The Dow Chemical Company  
1803 Building  
Midland, MI 48674

Subject: AMICAL WP Antimicrobial Agent  
EPA Registration No. 464-672  
Application Date: November 13, 2002  
EPA Received Date: November 18, 2002

Dear Mr. Bollmeier:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below.

**Proposed Amendment**

- Revised First Aid Statements per PR Notice 2001-1

**Conditions**

Revise the label as follows:

1. Revise the Precautionary Statements to read:

**PRECAUTIONARY STATEMENTS**

DANGER. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash clothing before reuse.

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2. Revise the "If Swallowed" section of the First Aid Statements to read:

**If swallowed:** Call a 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 a poison control center or doctor. *Do not give anything by mouth to an unconscious person.*

3. Revise the First Aid Statements by including the following statement "Have the product container or label with you when calling a poison control center or doctor, or going for treatment." This statement can be located at the beginning or end of the First Aid section.

4. Since this product has a Toxicity Category I for eye irritation, revise the "Pesticide Disposal" section to read as follows:

**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.

5. Revise the "Use in Paints" directions statement "For mildew control on fire-retardant coating add AMICAL WP at 0.003 to 0.61%..." to read "For mildew control on fire-retardant coating add AMICAL WP at 0.02 to 0.61%..." to reflect the application percentage accepted on your last stamped label, dated July 15, 1999.
6. Revise the "Use in Pigment, Dispersions, Inks, Emulsion and Extender Slurries" directions statement "AMICAL WP will impart protection when dosed at 0.01 - 0.31% (w/w)." to read "AMICAL WP will impart protection when dosed at 0.1 - 0.31% (w/w)." to reflect the application percentage accepted on your last stamped label, dated July 15, 1999.
7. Revise the Use in Leather Tanning" directions statement "When long hold or export protection is required, use 0.04% - 0.08% for cattle, 0.16 - 3.1% for sheep..." to read "When long hold or export protection is required, use 0.04% - 0.08% for cattle, 0.16% - 0.31% for sheep..." to reflect the application percentage accepted on your last stamped label, dated July 15, 1999.

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**General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit one(1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at 703-308-6422.

Sincerely,



Adam Heyward  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510 C)

# AMICAL™ WP ANTIMICROBIAL AGENT

## Active Ingredient(s):

Diiodomethyl p-tolyl sulfone . . . . . 48.45% (w/w)

## Inert Ingredient(s):

Related Compounds & Carriers . . . . . 51.55% (w/w)

TOTAL 100%

E.P.A. Registration No. 464-672

E.P.A. Est. 37429-GA-2

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

## PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**CORROSIVE • CAUSES  
IRREVERSIBLE EYE DAMAGE**

Harmful If Absorbed Through Skin • Do Not Get in Eyes • Wear Goggles, Face Shield, or Safety Glasses • Avoid Contact With Skin Or Clothing • Wash Thoroughly With Soap And Water After Handling

## FIRST AID:

**If in eyes:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately or treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center.

**If on skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for further treatment.

**Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage.



**THE DOW CHEMICAL COMPANY**  
Midland, Michigan 48674 U.S.A.

(888)636-4400

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75017-56/2002-1875 Active

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not contaminate water when disposing of equipment washwaters. 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.

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call 1-800-424-9300.

## STORAGE AND DISPOSAL

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. Store in a dry area. Keep container closed when not in use.

**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. If drum is contaminated and cannot be reused, dispose of in the same manner.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling.

### USE IN PAINTS

AMICAL WP is an effective mildewicide and algicide for exterior and interior latex paints, solvent-based paints, fire-retardant insulation coating and air duct coatings. Use levels in paint and duct coating will vary depending upon the formulation and expected severity of field conditions. Generally, AMICAL WP will impart protection when used at levels of between 4.0-10.2 lb AMICAL WP per 100 gallons of paint for severe situations while 3.0-6.1 lb AMICAL WP per 100 gallons of paint are sufficient for less severe conditions. AMICAL WP should be added during the last few minutes of the pigment grind for maximum dispersion. For mildew control on fire-retardant coating add AMICAL WP at 0.003 to 0.61% at point in production process to ensure sufficient mixing with other dry ingredients.

### USE IN PIGMENT DISPERSIONS, INKS, EMULSION AND EXTENDER SLURRIES

To inhibit the growth of spoilage fungi during storage of water-based suspension and dispersions. AMICAL WP will impart protection when dosed at 0.01-0.31% (w/w). Add AMICAL WP at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added.

### USE IN ADHESIVES, CAULKS AND SEALANTS

AMICAL WP is recommended for use in adhesives and binders e.g., joint compounds, tile mastics, wallpaper paste, carpet backing, air filter adhesive and sealants and caulks where mildew growth on the applied or stored product may be a problem. For control of mildew growth add 0.04-0.81% AMICAL WP at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added.

### USE IN LEATHER TANNING

AMICAL WP is used in protecting chrome or vegetable tanned leather from mold and mildew during in-tannery wet processing and for protecting wet-blue during long storage and long transportation times. For normal protection of chrome-tanned cattle hides (based on white weight of hides) use 0.02-0.04%, for sheep hides (based on drained pickle weight) 0.1-0.16%, and for goat and small skins use levels should be calculated on the dry basis of the skin weight, assuming limed weight to be 20% dry basis and pickled weight to be 33% dry basis. When long hold or export protection is required, use 0.04-0.08% for cattle, 0.16-3.1% for sheep, and on goat and small skins follow recommendations for normal protection. Use level recommendations during retan/color/fatliquor protection of chrome-tanned hides for all hide types are 0.2-0.61% (on wet blue weight). In all applications, add the dry AMICAL WP through the drum door, preferably by sprinkling across the width of the drum. This should be done just prior to chrome addition, or together with the formate, if formate is added dry prior to chrome. In the case of retan/color/fatliquor, add AMICAL WP prior to the prime fatliquor feed.

## USE IN WOOD PRESERVATION (FOR FORMULATING USE ONLY)

AMICAL WP can be used for control mildew, sapstain, and wood rotting organisms. Incorporate AMICAL WP into appropriate vehicles to protect wood from stain and decay. AMICAL WP can be utilized in either aqueous or solvent-based systems at concentrations ranging from 0.61%-2.0% (w/w). Solvent-based systems containing mineral spirits require a suitable co-solvent for the incorporation of AMICAL WP into the system. Formulators are responsible for obtaining EPA registration of formulated products.

### USE IN METALWORKING FLUIDS

AMICAL WP is recommended for use in metalworking fluids and lubricants to prevent fungal growth. The level of AMICAL WP to be incorporated into metalworking fluid concentrate will vary depending upon the dilution factor recommended by the manufacturer. For efficient fungistatic activity, a concentration 204 to 6122 ppm of AMICAL WP in the diluted fluid is suggested. AMICAL WP should be dissolved in an appropriate solvent prior to addition to the metalworking fluid.

### USE IN RUBBER AND PLASTIC PRODUCTS

AMICAL WP is recommended for PVC, polyurethane, rubber, thermoplastic rubber and other polymer-based products, coating, adhesives, foams, and sealants requiring protection against microbial deterioration. For control of microbial deterioration use 0.2-1.6% AMICAL WP based upon total weight of solids in the formulation. AMICAL WP can be incorporated into the formulation at any convenient state of the manufacturing process.

### USE IN TEXTILES AND NON-WOVENS (NON-CLOTHING)

To prevent mildew growth on products such as canvas, carpet, cordage, drapes, filters, and shower curtains. Use levels depend upon the expected severity of exposure or end-use conditions. In general 1.0-10.2 lb of AMICAL WP per 1000 lb of dry fabric (1020-10,200 ppm) is needed. AMICAL WP is best added together with the water-repellent emulsion or dye to ensure durability.

### USE IN PAPER PRODUCTION

This product aids in the control of objectionable fungi pulp, paper mills and the additive system and for the preservation of pulp, pigment slurries, alum, emulsions, adhesives, defoamers, polymers and paper products. This product is used to inhibit fungal growth which causes discoloration, odor and degradation in paper and paperboard. This product is not cleared for use in the manufacture of paper and paperboard products that come in contact with food.

**ACCEPTED  
with COMMENTS  
EPA Letter Dated:**

JAN 14 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-672