



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 23, 2015

Alexis L. Chapman  
Product Stewardship Regulatory Manager  
Dow Microbial Control  
100 Larkin Center  
Midland, MI 48674

Subject: Label Notification per PRN 98-10-Adding additional statement on the label to identify uses not approved for sale in the State of California.  
Product Name: AMICAL™ Flowable Antimicrobial Agent  
EPA Registration Number: 464-673  
Application Date: August 14, 2015  
Decision Number: 508089

Dear Ms. Chapman:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Farzana Olla at (703) 347-0190 or via email at [olla.farzana@epa.gov](mailto:olla.farzana@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Jacqueline Hardy".

for

Jacqueline Hardy, Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

**NOTIFICATION**

464-673

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

09/23/2015

**AMICAL™ Flowable Antimicrobial Agent**

**ACTIVE INGREDIENTS:**

Diiodomethyl-p-tolyl sulfone.....	40%
Inert Ingredients .....	60%
Total	100%

1 gallon provides 4.4 lb active ingredient

E.P.A. Registration No. 464-673

E.P.A. Est. XXXX-XX-X

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

<b>FIRST AID</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</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 a 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 by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN:</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 INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance and then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<b>IN CASE OF AN EMERGENCY</b> 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.	
<b>NOTES TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**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 and before eating, drinking, chewing gum, smoking tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.**

**Occupational handlers must wear chemical resistant gloves while handling diiodomethyl p-tolyl sulfone.**

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, ponds, streams, 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 plan authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Antisapstain treated lumber must be stored under cover, indoors, or at least 100 feet from any pond, lake, stream, wetland, or river to prevent possible runoff of the product into the waterway. Treated lumber stored within 100 feet of a pond, lake, stream, or river must be either covered with plastic or surrounded by a berm to prevent surface water runoff into nearby waterway. If a berm or curb is used around the site, it should consist of impermeable materials (clay, asphalt, concrete) and be of sufficient height to prevent runoff during heavy rainfall events.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a dry area. Keep container 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 DISPOSAL:

**Nonrefillable Container:** Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

## DIRECTIONS FOR USE

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

## USE IN PAINTS

AMICAL Flowable Antimicrobial Agent is an effective mildewcide and algaecide for exterior and interior latex paint, solvent-based paints, fire-retardant insulation coating and air duct coating. Use levels in paints and duct coatings will vary depending upon the formulation and expected severity of field conditions.

For roll coat applications only: AMICAL Flowable Antimicrobial Agent will impart protection when used at levels of 4.0-12.5 lb AMICAL Flowable Antimicrobial Agent per 100 gallons of

paint for severe conditions, while 2.5-7.5 lb AMICAL Flowable Antimicrobial Agent per 100 gallons of paint are sufficient for less severe conditions. For all other paint applications methods, including airless sprayer and brush/roller application: The maximum allowable concentration is 6.25 lb AMICAL Flowable Antimicrobial Agent per 100 gallons of paint. For mildew control of fire-retardant coating add AMICAL Flowable Antimicrobial Agent at 0.00375% to 0.75% to slurried coating. AMICAL Flowable Antimicrobial Agent can be added at any stage of the manufacturing process, at the point of retail purchase, or by the end user. After addition of AMICAL Flowable Antimicrobial Agent, the formulation must be mixed for maximum dispersion of the AMICAL Flowable Antimicrobial Agent.

For 0.5 oz, 20 oz, 75 oz by weight packages: Add 0.37 fl oz (0.5 oz av.) of AMICAL Flowable Antimicrobial Agent to each gallon of paint or stain. Use paint or stain as directed.  
For 2.5 oz av. Package: Add contents of package (2.5 oz of AMICAL Flowable Antimicrobial Agent) to 5 gallons of paint or stain. Use paint or stain as directed.

### **USE IN PIGMENT DISPERSIONS, INKS, EMULSIONS AND SLURRIES**

To inhibit the growth of spoilage fungi during the storage and use of water-based suspensions and dispersions and slurries, such as clay, kaolin, calcium carbonate, calcium sulfate, barium sulfate, magnesium sulfate, iron oxide, carbon black, titanium oxide, kieselguhr, starch, organic dyes, and other filler suspensions. AMICAL Flowable Antimicrobial Agent at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added.

### **USE IN CAULKS AND ADHESIVES**

Use AMICAL Flowable Antimicrobial Agent in adhesives and binders, e.g. joint compounds, tile mastics, wallpaper paste, carpet backing, air filters and foil crimp Kraft laminate; and sealants and caulks where mildew growth on the applied or stored product may be a problem. For control of mildew add 0.025-0.72% of AMICAL Flowable Antimicrobial Agent at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added. AMICAL Flowable Antimicrobial Agent also can be added by the end-user at a point of use of the adhesive. Add 0.044-0.176 fl oz (0.06-0.24 oz av.) directly to each gallon of adhesive paste or to each gallon of paste activator.

### **USE IN WOOD PRESERVATION (For Above Ground Use Only)**

#### **Product Not Registered For This Use in California- Optional**

**Do not apply this product to any structure, or use any wood treated with this product in or above water or within 100 feet of any surface water or wetland area. Wood treated with diiodomethyl p-tolyl sulfone shall not be used in the construction of beehives.**

AMICAL Flowable Antimicrobial Agent can be used for control of mildew, sapstain, and wood rotting organisms at wood treatment facilities or incorporated into other registered wood preservatives. For typical end users, such as building lumber, furniture, frames, fences, decking, shingles, and siding, logs and poles, add AMICAL Flowable Antimicrobial Agent to the water based treatment solution with constant agitation for optimum results. Concentrations of 0.3-0.8% (w/w active ingredient) give best results. For dip treatments, submerge for a minimum of one minute. Spray applications should use at least 0.5% (w/w a.i.) concentration AMICAL Flowable Antimicrobial Agent. Spray to run-off if intermittent spraying. AMICAL Flowable

Antimicrobial Agent can be used with other wood preservatives such as chromate copper arsenate (CCA), quaternary ammonium compounds, borates, tributyltin compounds, and zinc and copper salts at levels of 25-5000 ppm. In cases where AMICAL Flowable Antimicrobial Agent is incorporated into a formulated wood preservative, follow label directions for the finished product. Do not use treated wood where there is direct contact with food, feed, potable water, livestock or dairy animals or for surfaces likely to have repeated or prolonged skin contact. Do not use where there will be direct contact with plants.

### **USE IN LEATHER TANNING**

#### **For use in leather tanning drum use only.**

AMICAL Flowable Antimicrobial Agent 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 weights of hides) use 0.02-0.03%, for sheep hides (based on drained pickle weight) 0.08-0.11%, and for goat and small skins use levels calculate levels 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 0.03-0.66% for cattle, 0.11-0.17% for sheep, and on goat and small skins follow directions for normal protection. Use level directions during retan/color/fatliquor protection of chrome-tanned hides for all hide types are 0.15-0.45% (% on wet blue weight). In all applications add the dry AMICAL Flowable Antimicrobial Agent through the drum door, preferably by sprinkling across the width of the drum. This is done just prior to chrome addition, or together with the formate. In the case of retan/color/fatliquor, add AMICAL Flowable Antimicrobial Agent prior to the prime fatliquor feed.

### **USE IN TEXTILES AND NON-WOVENS (Non-clothing)**

#### **Product Not Registered For This Use in California- Optional**

To prevent mildew growth on products such as canvas, carpet-backing, cordage, drapes, filters, and shower curtains. Use only to treat carpet-backing. Not for use in carpet fibers. Use levels depend upon the expected severity of exposure or end-use conditions. In general, 1.25 to 12.5 lb of AMICAL Flowable Antimicrobial Agent per 1000 lb dry fabric (1250-12500 ppm) is needed. AMICAL Flowable Antimicrobial Agent is best added together with the water-repellent emulsion of dry to ensure durability.

### **USE IN PAPER PRODUCTION**

#### **Product Not Registered For This Use in California-Optional**

This product aids in the control of objectionable fungi in 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. Additions can be made on a continuous or intermittent basis, depending upon the severity of the contamination. Badly fouled systems must be cleaned before treatment is begun. Apply at a point in the system where the product will be uniformly mixed.

Intermittent or Slug Method – Initial Dose: When the system is noticeably fouled, add this product at the rate of 0.0019 to 1.92 lb per ton of pulp or paper produced. Add directly to the

additive system at the rate of 0.0096 to 7.97 lb (9.48 to 400 ppm) per 1000 gallons. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add this product at the rate of 0.0019 to 0.96 lb per ton of pulp or paper produced. Treat the system as needed to maintain control.

Addition of this product to the additive system may be reduced to 0.0096-4.03 lb (0.48 to 200 ppm) per 1000 gallons.

Continuous Feed Method-Initial Dose: When the system is noticeably fouled, add this product at the rate of 0.0019-1.0 lb per ton of pulp or paper produced. Add directly to the additive system at the rate of 0.0096 to 7.97 lb (9.48 to 400 ppm) per 1000 gallons. Continue until control is achieved.

Subsequent Dose: Maintain by continuous feed of this product at the rate of 0.0019 to 1.0 lb per ton of pulp and paper product.

### **MOLD INHIBITION IN PAPER AND PAPERBOARD**

This product is used to inhibit fungal growth which causes discoloration, odor and degradation in paper and paperboard. This product may be applied to the white water or stock. For best results, the final paper will contain 0.54-8.21 lb of AMICAL Flowable Antimicrobial Agent per ton of dry fiber produced. For inhibition of wet lap or sheep pulp this product is applied to the dewatered pulp surfaces via applicator rolls or shower at 0.048-8.16 lb per ton of dry fiber produced. Application can also be made at the size press or water box. Application is made at the rate of 200 to 2000 ppm of this product in the solution applied to the paper sheet.

### **PRESERVATION IN PAPER PLANT STORAGE**

#### **Product Not Registered For This Use in California-Optional**

Add this product directly to the material to be preserved prior to manufacturing into the finished product, i.e. pulp, alum, broke, polymers, defoamers, emulsions, adhesives, paper mill coating, pigment, and slurries. The dosage rate will depend upon the material to be preserved and the storage time. The usual additions are 0.2 ppm active for storage of microbial resistant materials up to 250 ppm active for less resistant materials. Under extreme conditions of spoilage the dosage rate is increased to 4 to 400 ppm. The above directions are based on a maximum storage time of two weeks.

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 when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES 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.

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