

464-673

12-09-2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

DEC 9 2009

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Abigail Trueblood, Senior Regulatory Specialist
The Dow Chemical Company
1803 Building
Midland, MI 48674

Subject: Notification per PR Notice 98-10
Amical Flowable Antimicrobial Agent
EPA Registration Number: 464-673
Application Date: November 10, 2009
Receipt Date: November 12, 2009

Dear Ms. Trueblood:

This acknowledges receipt of your notification, submitted under the provisions of PR Notice 98-10 and FIFRA section 3 (c) 9.

Proposed Notification:

- Label revision per PR Notice 2007-4.

General Comments:

The notification is acceptable. A copy has been inserted in your file for future reference.

Should you have further questions concerning this letter, please contact me at 703-308-6427 or by email at carlisle.shaRon@epa.gov or Killian Swift by telephone at 703-308-6346 or by email at swift.killian@epa.gov. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

A handwritten signature in black ink that reads "ShaRon Carlisle".

ShaRon Carlisle
(Acting) Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)



United States Environmental Protection Agency Washington, DC 20460

Registration
Amendment
Other (checked)

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: 464-673
2. EPA Product Manager
3. Proposed Classification: None (checked), Restricted
4. Company/Product (Name): AMICAL FlowableAntimicrobial Agent
5. Name and Address of Applicant: The Dow Chemical Company, 1803 Building, Midland, MI 48674
6. Expedited Review: In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to update labels as required by PR Notice 2007-4. Enclosed letter contains required Notification Certification

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Plastic (checked), Cases
3. Location of Net Contents Information: Container (checked)
4. Size(s) Retail Container: 25,50, 300 lb
5. Location of Label Directions: On Label (checked)
6. Manner in Which Label is Affixed to Product: Lithograph Paper glued (checked)

Section - IV

1. Contact Point: Name: Abigail Trueblood, Title: Senior Regulatory Specialist, Telephone No: 847-808-3555
Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature: Abigail Trueblood
3. Title: Senior Regulatory Specialist
4. Typed Name: Abigail Trueblood
5. Date: 11-10-09
6. Date Application Received (Stamped)



November 9, 2009

The Dow Chemical Company
1500 E. Lake Cook Road
Buffalo Grove, IL 60089
USA

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

**Re: NOTIFICATION- EPA Reg. No. 464-673
AMICAL™ Flowable Antimicrobial Agent
The Dow Chemical Company**

Dear Ms Carlisle:

The Dow Chemical Company (Dow) hereby submits a label Notification to revise the container disposal statement in response to PR Notice 2007-4. In order for the application to be processed the required Notification Statement is below:

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under Sections 12 and 14 of FIFRA.

The enclosed label notification is based on the currently approved label for this product. Dow is aware that there will label amendments required as a result of the RED for this product and will submit all required amendments following issuance of the DCI.

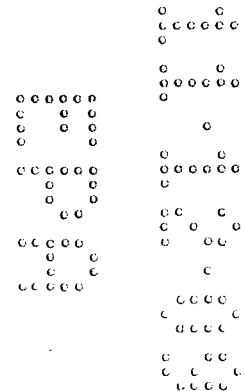
Enclosed are the following documents to support this Notification:

- EPA Form 8570-1, marked for Notification
- One copy of the proposed label with changes highlighted

Please contact me if you have any questions or need additional information.

Sincerely,

Abigail Trueblood
Senior Regulatory Specialist
The Dow Chemical Company
1500 East Lake Cook Rd.
Buffalo Grove, IL 60089
847-808-3555
atrueblood@dow.com



AMICAL Flowable Antimicrobial Agent
Master Label
December 1, 2009

AMICAL™ Flowable Antimicrobial Agent

Active Ingredient(s): Diiodomethyl p-tolyl sulfone 40.0% (w/w)
Inert Ingredients 60.0% (w/w)
Total 100%

E.P.A. Registration No. 464-673
E.P.A. Est. XXXX-XX-X

NOTIFICATION
Date Reviewed: 12/19/09
Reviewed By: *[Signature]*

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> • Hold eyes 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 eyes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • 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 by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN :	<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 INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment
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.	

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. Remove contaminated clothing and wash clothing before reuse.

AMICAL Flowable Antimicrobial Agent
Master Label
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ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 plan authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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 algicide for exterior and interior latex paint, solvent-based paints, fire-retardant insulation coating and air duct coatings. Use levels in paints and duct coatings will vary depending upon the formulation and expected severity of field conditions. Generally, 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 mildew control on fire-retardant coating add AMICAL Flowable Antimicrobial Agent at 0.00375% to 0.75% to slurred coating. AMICAL

AMICAL Flowable Antimicrobial Agent

Master Label

December 1, 2009

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 should 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.

USE IN PIGMENT DISPERSIONS, INKS, EMULSIONS AND EXTENDER SLURRIES

To inhibit the growth of spoilage fungi during storage of water-based suspensions and dispersions. AMICAL Flowable Antimicrobial Agent will impart protection when dosed at 0.05-0.375% (w/w). Add 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

AMICAL Flowable Antimicrobial Agent is recommended for use in adhesives and binders, e.g. joint compounds, tile mastics, wallpaper paste, carpet backing, air filters and foil scrim 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% 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)

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 0.3-1.0% (w/w active ingredient) are recommended. 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. For pressure treatment, retention levels of 0.05-1.0 lb pcf are recommended. AMICAL Flowable Antimicrobial Agent can be used with other wood preservatives such as chromated 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. Uses where there will be direct contact with plants are not recommended.

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AMICAL Flowable Antimicrobial Agent
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USE IN LEATHER TANNING

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 weight 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 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 0.03-0.06% for cattle, 0.11-0.17% 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 0.15-0.45 (% 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 should be 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)

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, 1.25 to 12.5 lb of AMICAL Flowable Antimicrobial Agent per 100 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

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 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, at this product at the rate of 0.0019 to 1.92 lb per ton of pulp or paper produced. Addition to the additive system should be made directly at the rate of 0.0096 to 7.97 lb (0.48 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.

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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 of paper produced. Additions of this product to the additive system should be made directly at the rate of 0.0096 to 6.05 lb (0.48 to 300 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. The final paper should 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 should be 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 20000 ppm of this product in the solution applied to the paper sheet.

PRESERVATION IN PAPER PLANT STORAGE

This product should be added 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 should be 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 should be increased to 4 to 400 ppm. The above recommendations are based on a maximum storage time of two weeks.

USE IN METALWORKING FLUIDS

AMICAL Flowable Antimicrobial Agent is recommended for use in metalworking fluids and lubricants to prevent fungal growth. The level of AMICAL Flowable Antimicrobial Agent to be incorporated into metalworking fluid concentrate will vary depending upon the dilution factor recommended by the manufacturer. For efficient fungistatic activity, a concentration of 240-7200 ppm of AMICAL Flowable Antimicrobial Agent in the diluted fluid is suggested. AMICAL Flowable Antimicrobial Agent should be dissolved in an appropriate solvent prior to addition in the metalworking fluid.

PRESERVATIVE FOR FORMULATIONS FOR DRAIN, GREASE TRAP AND SEPTIC SYSTEM MAINTENANCE

To inhibit fungal contamination in formulations used on the maintenance of drain lines, grease traps and septic systems. AMICAL Flowable Antimicrobial Agent should be dosed at 125-1000 ppm based on the final formulation volume.

AMICAL Flowable Antimicrobial Agent
Master Label
December 1, 2009
NET WT:
Lot:

Produced For

Dow Diamond TM
THE DOW CHEMICAL COMPANY
Midland, Michigan 48674
989-636-4400

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

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