

464-673

5-19-2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

May 19, 2003

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

Subject: AMICAL Flowable Antimicrobial Agent
EPA Registration No. 464-673
Application Date: February 19, 2003
EPA Received Date: February 21, 2003

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

- Label review in response to Agency letter dated January 14, 2003

Conditions

Revise the label as follows:

1. Per Agency letter dated, January 14, 2003, active and inert ingredients must be expressed in percentage by weight. Therefore, include the percentage (%) sign and revise the ingredient statement to read:

ACTIVE INGREDIENT
 Diiodomethyl p-tolyl sulfone.....40.0%
 INERT INGREDIENTS.....60.0%
 TOTAL...100.0%

CONCURRENCES

SYMBOL	7510c						
URNNAME	7510c						
DATE	5-19-03						

- 2. The precautionary statement must be written on the label as follows:

**PRECAUTIONARY STATEMENTS
HAZARD 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.

- 3. With regard to the storage and disposal statement, the statement "Do not contaminate water, food, or feed by storage and disposal." must be removed from the storage instructions and placed immediately following the subheading to read as follows:

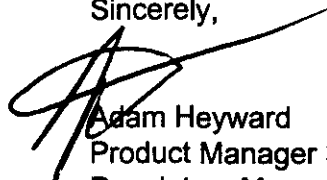
STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit three(3) copies 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™ FLOWABLE ANTIMICROBIAL

ACTIVE INGREDIENT* :

Diiodomethyl p-tolyl sulfone 40.0(w/w)
 INERT INGREDIENTS: 60.0(w/w)
 TOTAL 100%

*(1 gallon provides 4.4 lb active ingredient)
 EPA Reg. No. 464-673
 EPA EST. No. 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 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**



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

(989)636-4400

* Trademark of THE DOW CHEMICAL COMPANY

76916-2/17/2003-1850

ACCEPTED
 with COMMENTS
 EPA Letter Dated:

MAY 19 2003

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act as
 amended, for the pesticide,
 registered under EPA Reg. No. 464-673

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 five 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.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable 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 1-800-424-9300 . 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 preclude the use of gastric lavage.	

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.

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. Protect from freezing.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate 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: Triple rinse (or equivalent), then 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 the labeling.

USE IN PAINTS

AMICAL Flowable 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 paint and duct coating will vary depending upon the formulation and severity of field conditions. Generally AMICAL Flowable will impart protection when used at levels of 4.0-12.5 lb AMICAL Flowable per 100 gallons of paint for severe conditions while 2.5-7.5 lb AMICAL Flowable per 100 gallons are sufficient for less severe conditions. For mildew control on fire retardant coating add AMICAL FLOWABLE at 0.00375% to 0.75% to slurred coating. AMICAL Flowable 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 the formulation should be mixed for maximum dispersion of the AMICAL Flowable.

For 0.5 oz, 20 oz, 75 oz by weight packages: Add 0.37 fl oz (0.5 oz av.) of AMICAL Flowable 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) to 5 gallons 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 will impart protection when dosed at 0.05-0.375% (w/w). Add AMICAL Flowable 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 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 growth add 0.025-0.72% AMICAL Flowable at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added. AMICAL Flowable 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 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 to the water based treatment solution with constant agitation for optimum results. Concentration 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. Spray to run-off or intermittent spraying. For pressure treatment, retention levels of 0.05-1.0 lb pcf are recommended. AMICAL Flowable 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 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.

USE IN LEATHER TANNING

AMICAL Flowable 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 lined 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 recommendations for normal protection. Use level recommendations during retan/color/fatigue 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 through the drum door. This should be done just prior to chrome addition, or together with the formate. In the case of retan/color/fatigue, add AMICAL Flowable prior to the prime fatigour feed.

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

To prevent mildew growth on products such as canvas, carpet, cordage, grapes filters, and shower curtains. Use levels depend upon the expected severity of exposure or end-use conditions. In general 1.25-12.5 lb AMICAL Flowable per 1000 lb of dry fabric (1250-12,500 ppm) is needed. AMICAL Flowable is best added together with the water-repellent emulsion or dye to ensure durability.