

912012010 UNIZED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

SEP 2 0 2010

L PROT

Abigail Trueblood **The Dow Chemical Company** 1500 E. Lake Cook Road Buffalo Grove, IL 60089

Subject:

AMICAL[™] Flowable Antimicrobial Agent EPA Registration Number: 464-673 Application Date: June 24, 2010 Receipt Date: June 25, 2010

Dear Ms. Trueblood:

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

Proposed Amendment

• Label Amendment: Update Label per AMICAL RED

Conditions

Revise the label as follows:

1.) PRN 2005-1, Guidance for Mandatory and Advisory Labeling Statements, states that: "Mandatory statements, which commonly use imperative verbs such as "must" or "shall", either require action or prohibit the user from taking certain action. Advisory statements generally provide information, either in support of the mandatory statements or about the product in general. To ensure that the intent of each labeling statement is clear, mandatory statements need to be clearly distinguishable from advisory statements."

Therefore, you must revise the "Directions for Use" by deleting the terms, "should" and replace with "must" (pg 3) Also, delete the word "recommend" and replace with "a must" under the "Use In Caulks And Adhesives" subheading.

2.) On page 4 replace the word "can" with "is" in the sentence "...can be used for control of mildew,..."

3.) Revise 7th Statement under "Precautionary Statements to read " before eating, drinking, chewing gum, smoking tobacco, or using the toilet."

		· ·	 <u> </u>	A	 	
	<u> </u>		 CONCURRENC	25		
SYMBOL						
SURNAME			a an			*
DATE			 e e e e			
dentition and the second s					0.000	

EPA Form 1320-1A (1/90)

OFFICIAL FILE COPY

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

ند و.

STATES ENVIRONMENTAL PROTECTION AGENCY

General Comments

A stamped label with conditions is enclosed for your records. Submit a copy of your final printed label before distributing or selling the product bearing the revised labeling.

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at campbell-mcfarlane.jacqueline@epa.gov or Stacey Grigsby by telephone at (703) 308-6440 or by email at grigsby.stacey@epa.gov . When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission in order to facilitate processing.

Sincerely,

etine Campbell-McFarlane

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

Enclosure: stamped label

SYMBOL

•	EPA Form	1320-1A (1/90)		Printed on Recycled	l Paper		OFFICI
	-				a constantina de la c		
•	DATE		 ,			2 .	
•	SURNAME			n an ann an Anna Anna Anna Anna Anna An		n na sang ga	

CONCURRENCES

IAL FILE COPY

AMICALTM Flowable Antimicrobial Agent

Active Ingredient(s): Diiodomethyl p-tolyl sulfone 40.0% (w/w) 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

ACCEPTED with COMMENTS in EPA Letter Dated:

SEP 2 0 2010

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

DANGER

·····	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 5 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 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 :	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:	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
	HOT LINE NUMBER
IN CASE OF AN EME	RGENCY endangering life or property involving this product, call collect
	he product container or label with you when calling a poison control center or
doctor or going for treats	nent.
NOTE TO PHYSICIAI	N: Probable mucosal damage may preclude 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, où 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 600000 reuse. د د د د _د

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

1

°

000000

00

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. 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 vour 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 the nearby waterway. If a berm or curb is used around the site, it should consist of impermeable material (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. υú o available or puncture and dispose of in a sanitary landfill, or by incineration, or, if o allowed by state and local authorities, by burning. If burned, stay out of smoke e_{cocc}



U C

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 paints, 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.

For roll coat applications only: AMICAL Flowable Antimicrobial Agent will impart protection when used at levels between 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 is 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 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.

For 2.5 oz. av. Package: Add contents of package (2.5 oz. AMICAL Flowable Antimicrobial Agent) 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 Antimicrobial Agent will impart protection when dosed at 0.05-0.375% (w/w). Add AMICAL Flowable Antimicrobial Agent at a point in the formation 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 obinders, e.g. joint compounds, tile mastics, wallpaper paste, carpet backing, air filters and consistent 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.

00000

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) 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 dijodomethyl 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) 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 0.05-017 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.

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 weight of hides) use 0.02-0.03%, for sheep 00 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 0.03-0.066% for cattle, 0.11-0.17% for sheep, and on goat and on small skins follow recommendations for normal protection. Use level recommendations during retan/ color/fatliquor protection of chrome-tanned hides for all hide types are 0.15-600000 0.45 (% on wet blue weight). In all applications add the dry AMICAL Flowable 00000 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

6/8

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-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

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. 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.

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. 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 \degree 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 \hat{c}_{aa} 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.

сo

0000 00000

0.00000 000 000 000

000000

718

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.

LIMITED WARRANTY AND DISCLAIMER

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 WARRANTIESMADE IN THIS PARAGRAPH ARE SELLER'S SOLEW ARRANTIES WITH RESPECT TO THE PRODUCT AND AREMADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIEDWARRANTIES OF MERCHANTABILITY OR OF FITNESS FORA PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES:

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

