January 14, 2003

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

Subject:

AMICAL Flowable

EPA Registration No. 464-673

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:

- Active and inert ingredients must be expressed in percentage by weight. Therefore, include the percentage (%) sign and revise the ingredient statement 1. to read "40.0%" and "60.0%".
- Revise the Precautionary Statements to read: 2.

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.

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EPA Form 1320-1A (1/90)

Printed on Recycled Paner

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3. 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.

- 4. 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.
- 5. 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.

6. Revise the "Container Disposal" section to read as follows:

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CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

To dispose of fiber drum containers, you must completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in 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.

7. Revise the "Use in Paints" directions statement "...while 2.5 - 7.5 lb AMICAL Flowable at 0.00375% to 0.75% to slurried coating." to read "...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 slurried coating." as worded on your last stamped label, dated August 30, 1996.

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™ FLOWABLE

ACTIVE INGREDIENT':

Dilodomethyl p-tolyl sulfone. 40.0(w/w)

*(1 gailon provides 4.4 (b 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

Do Not Get in Eyes, On Skin Or Clothing . May Be Harmful If Absorbed Through The Skin · Avoid Contact With Skin · Do Not Take Internally - Wash Thoroughly With Soap And Water After Handling · Remove Contaminated Clothing and Wash Clothing Before Reuse . Wear Goggles, Face Shield, or Safety Glasses

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 mor 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.



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A. 1-800-258-CHEM

*Trademark of THE DOW CHEMICAL COMPANY 78916-12/17/3001:1950 Active

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

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.

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. Protect from freezing.

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: 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 mildeworde and algicide for exterior and interior lettex paint, solvent-based paints, fire-retardant insulation coding, and air duct coatings. Use levels in paint and duct coating coamig, and air duct cosmigs. Use sives in paint aird duct cosmig will vary depending upon the formulation and severity of field conditions. Generally AMICAL Flowable will import protection when used at levels of 4.0-12.5 ib AMICAL Flowable per 100 gallons of paint for severe conditions while 2.5-7.5 ib AMICAL Flowable at 0.00375% to 0.75% to sturried coating. AMICAL Flowable can be added at any state of the presultant per resonance at the notic of retail fourtheas or state 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 cz. 20 cz. 75 cz by weight packages: Add 0.37 fi cz (0.5 cz ev.) of AMICAL Flowable to each gallon of paint or stain. Use paint or

For 2.5 oz av. package: Add contents of package (2.5 oz of AMICAL Flowable) to 5 gallions of paint or stain. Use paint or stain as directed.

ACCEPTED With COMMENTS EPA Letter Dated:

JAN 1 4 2003

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

USE IN PIGMENT DISPERSIONS, INKS, EMULSIONS AND EXTENDER SLURRIES

EXTENDER SLUBRIES
To inhibit the growth of spoilage fungl 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

USE IN CAULKS AND ADHESIVES

AMICAL Plowable is recommended for use in adhesives and binders, e.g., joint compounds, tile meastics, wallpaper pasts, carpet backing, air filers and fall acrim Kraft tentinate; and seelants and caulks where mildow growth on the applied or stored product may be a problem. For control to f mildow growth add 0.025-0.725. AMICAL Flowable at a point in the production process where sufficient mixing will assure good suspension of the meterial 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 if or (0.06-0.24 or av.) directly to each gallon of achesive pasts or to each gallon of pasts activator.

USE IN WOOD-PRESERVATION - (FOR ABOVE GROUND USE ONLY) USE IN WOOD-PRESERVATION - (FOR ABOVE GROUND USE ONLY)
AMICAL Flowable can be used for control of mildew, separatin, and
wood-rotting organisms at wood treatment facilities or incorporated into
other registered wood preservations. For typical end users such as
building lumber, furniture, frames, fences, decking, shingles and
siding, logs and poles, add AMICAL Flowable to fire water based
tweatment solution with constant agitation for optimum results.
Concentration of 0.3-1.0% (w.w active impredient) 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 it intermittent appaying. For pressure
treatment, retention levels of 0.05-1.0 it pct are recommended.
AMICAL Flowable. can be itsted with other word preservatives such as treatment, retention levels of 0.05-1.0 ib pcf are recommended. AMICAL Flowable can be used with other wood preservatives such as chromated copper arsenate (CCA), quaternary ammonium compounds, borates, irrbutylin 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 lood, feed potable water, livestock, or dainy smirnals or for surfaces likely to have repeated or protonged skin contact. Uses where there will be direct contact with plants are not recommended.

USE IN LEATHER TANNING

USE BY 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 goet 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 loop hold or asport protection is engined used 0.02-0.66% minor weight to be 20% only 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/fait/quor protection of chrome-tenned hides for all hide types are 0.15-0.45 (% on wet blue weight). In all applications, and the dry AMICAL Example the secure his desired for all standards. 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/falliquor, add AMICAL Flowable prior to the prime

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 1.25-12.5 b 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.

USE IN PAPER PRODUCTION

This product aids in the control of objectionable fungi in putp mills and the additive system and for the preservation of putp sturies, alum, emulsions, achiesives, deformers, polymers a swarres, saum, emissions, appreciate, provinces a products. This product is used to inhibit furgel growth which discoloration, odor and degradation in paper and paperboard, product is not cleared for use in the mentificia

Additions can be made on a continuous or intermitte depending upon the severity of the contemination. Badly for systems much be cleaned before treatment to begun. Apply in the system where the product will be unlithinly mixed. mailion. Badly fou

Intermittent or Stug Method - joilies [Doss: When the system rolloeably fouled, add this product at the rate of 0.0019 to 1.8 for of pulp, or peoper produced. Addition to the additive system be made directly at the rate of 0.0006 to 7.97 ib (0.48 to 400 p 1000 gallons. Repeat until control is softweed. <u>Subanquant</u> When mitorobial control is evident, add this product at the rate outer the outer a control to evenent, and was produced. Treat the as needed to meintain control. Addition of this product to the system may be reduced to 0.0096 - 4.03 to (0.48 to 200 ppm) gallons.

Continuous Feed Method - Initial Doss: When the system is noticeably fouled, add this product at the rate of 0.0019 to 1.0 to 1.

MOLD INHIBITION IN PAPER AND PAPERBOARD

MOLD INHESTION IN PAPER AND PAPERSOARD.
This product is used to inhibit fungel growth which causes discoloration, odor and degradation in paper and paperboard, product may be applied to the white water or stock at a rate of 0.448-8.18 ib per ton of dry fiber produced. For inhibition of water pulp, this product should be applied to the desistency paurisces via explication roles or shower at 0.048-8.18 ib per ton fiber produced. Application can also be made at the size pre-water box. Application is made at the rate of 200 to 20,000 p product in the solution applied to the paper sheet.

PRESERVATION IN PAPER PLANT STORAGE

PRESERVATION IN PAPER PLANT STORAGE.
This product should be added directly to the material to be prior to manufacturing into the finished product, i.e., putp, alupotymers, defoamers, emutations, adhesives, paper mill cost pigment and sturries. The dosage rate will depend upon the to be preserved and the storage time. The usual additions at 0.0 mms. 0.2 ppm active for storage of microbial resistant materials up ppm active for loss resistant materials. Under extreme cond apolisge the dosage rate should be increased to 4 to 400 pm. above recommendations are based on a maximum storage til

USE IN METALWORKING FLUIDS

AMICAL Flowable is recommended for use in:metalworking f hibricants to prevent fungal growth. The level of AMICAL Flow be incorporated into metalworking fluid concentrate will vary depending upon the dilution factor recommended by the man For efficient fungistatic activity, a concentration 240-7200 pp AMICAL Flowable in the dilution fluid is suggested.

PRESERVATIVE FOR FORMULATIONS FOR DRAIN, GREAS AND SEPTIC SYSTEM MAINTENANCE

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