

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-G060, Approval expires 05-31-98



United States Environmental Protection Agency Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number 251403

Application for Pesticide - Section I

1. Company/Product Number 48301-24	2. EPA Product Manager Connie Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) AMICAL® Flowable	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) ANGUS Chemical 1500 E. Lake Cook Rd. Buffalo Grove, IL 60089 <input type="checkbox"/> Check if this is a new address	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

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Minor change in wording of use directions to make them consistent with those of AMICAL 48 (EPA Reg No. 48301-19), the technical active.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container		<input type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
				<input checked="" type="checkbox"/> Other (Specify) fiber drum	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 30gal. and 50lb	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Allen F. Bollmeier	Title Manager, Regulatory Affairs	Telephone No. (Include Area Code) (708) 215-8600
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature Allen F. Bollmeier	3. Title Manager, Regulatory Affairs	
4. Typed Name Allen F. Bollmeier	5. Date October 10, 1995	

DRAFT LABEL

**AMICAL® FLOWABLE
Antimicrobial Agent**

Active Ingredient:*		
Diiodomethyl p-tolyl sulfone		40.0%
Inert Ingredients:		60.0%
Total		100.0%

*(1 gallon provides 4.4 lb active ingredient)

KEEP OUT OF REACH OF CHILDREN

DANGER

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

CORROSIVE: CAUSES IRREVERSIBLE EYE DAMAGE

Do not get in eyes or on 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 before reuse. Wear goggles, face shield, or safety glasses.

Statement of Practical Treatment

IF IN EYES: Hold eyes open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

IF ON SKIN: Wash thoroughly with soap and water. Get medical attention.

IF SWALLOWED: Drink a large quantity of milk, egg white, or gelatin mixture, or, if these are not available, a large quantity of water. Avoid alcohol.

Note to Physician: Probable mucosal damage may preclude the use of gastric lavage.

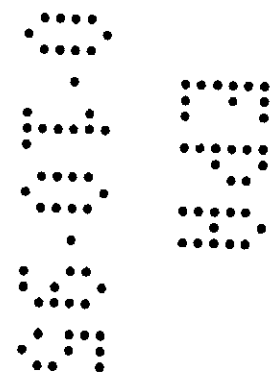
Environmental Hazards

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.

EPA Reg. No. 48301-24

EPA Est. No. 37429-GA-2

ANGUS Chemical Company
1500 East Lake Cook Road
Buffalo Grove, IL 60089



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 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 its labeling.

Use In Paints:

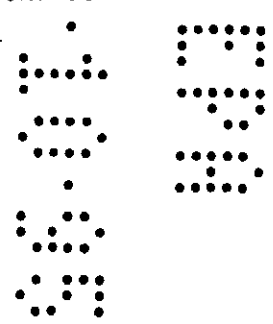
AMICAL Flowable is an effective mildewcide and algicide for exterior and interior latex paint, solvent-based paints, fire-retardant insulation coating, and air duct coatings. Use levels in paint and duct coating will vary depending upon the formulation and severity of field conditions. Generally AMICAL 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 slurried 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 0.5oz, 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 to 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 Adhesives, Caulks And Sealants

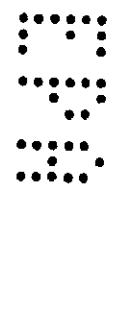
Amical Flowable is recommended for use in adhesives and binders e.g., joint compounds, tile mastics, wallpaper paste, carpet backing, air filter and foil scrim Kraft laminate; and sealants and caulks where mildew growth on the applied or stored product may be a problem. For control of mildew growth add 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. 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. Spray to run-off if 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 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 is 0.15-0.45% (on wet blue weight). In all applications, add the 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/fatliquor, add AMICAL Flowable 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 1.25-12.5 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.

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 0.0019-1.92 lb per ton of pulp, or paper produced. Addition to the additive system should be made directly at the rate of 0.0096-7.97 lb (0.48 to 400 ppm active) per 1000 gallons. Repeat until control is achieved.

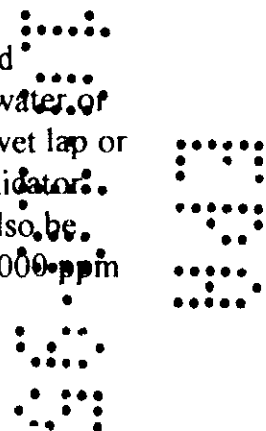
Subsequent Dose: When microbial control is evident, add this product at the rate of 0.0019-0.96 lb per ton of pulp or paper produced. Treat the system as needed to maintain control. Addition of this product to the additive system may be reduced to 0.0096-4.03 lb (0.48-200ppm active) per 1000 gallons.

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 of paper produced. Additions of this product to the additive system should be made directly at the rate of 0.0096-6.05 lb (0.48 to 300 ppm active) per 1000 gallons. Continue until control is achieved.

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

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 of stock at a rate of 0.048-8.16 lb per ton of dry fiber produced. For inhibition of wet lap or sheet 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 20,000 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 is recommended for use in metalworking fluids and lubricants to prevent fungal growth. The level of AMICAL Flowable 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 AMICAL Flowable in the diluted fluid is suggested.

