

464-670

1-14-2003

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January 14, 2003

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

Subject: AMICAL 48
EPA Registration No. 464-670
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
- Revised basic formula (see CSF dated 11/13/02)

Conditions

Revise the label as follows:

1. Revise the Precautionary Statements to read:

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.

Remove contaminated clothing and wash clothing before reuse.

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2. 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.

3. 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.

4. 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.

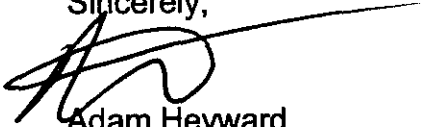
General Comments

The changed basic confidential statement of formula (CSF), dated November 13, 2002, supercedes all previously accepted basic formulas.

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™ 48

Active ingredients:

Dilodimethyl p-tolyl sulfone.....95%

Inert ingredients:.....5%

TOTAL 100%

E.P.A. Registration No. 464-670

E.P.A. Est. 33657-JP-3

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**

FIRST AID:

1 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.



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

1-800-258-CHEM

* Trademark of THE DOW CHEMICAL COMPANY

77270-10/23/2001-1824 Active

Made in Japan

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 treatment.

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.

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.

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.

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: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a 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.

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 48 is an effective mildewcide and algicide for exterior and interior paints, fire-retardant insulation coating and air duct coatings. Use levels in paint and duct coating will vary depending upon the formulation and expected severity of field conditions. Generally, AMICAL 48 will impart protection when used at levels of between 1.6-6 lb AMICAL 48 per 100 gallons of paint for severe situations while 1-3 lb AMICAL 48 per 100 gallons of paint are sufficient for less severe conditions. AMICAL 48 should be added during the last few minutes of the pigment grind for maximum dispersion. For mildew control on fire-retardant coating add AMICAL 48 at 0.0015 to 0.3% at point in production process to ensure sufficient mixing with other dry ingredients.

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 48 will impart protection when dosed at 0.02-0.15% (w/w). AMICAL 48 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 48 is recommended for use in adhesives and binders, e.g., joint compounds, tile mastics, wallpaper paste, carpet backing, air filler and foil scrim Kraft laminates; and sealants and caulks where mildew growth on the applied or stored product may be a problem. For control of mildew growth add 0.01-0.30% AMICAL 48 at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added.

USE IN LEATHER TANNING

AMICAL 48 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 0.01-0.02%, for sheep hides (based on drained pickle weight) 0.05-0.08%, 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 0.02-0.04% for cattle, 0.06-0.15% 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 0.1-0.3 (% on wet blue weight. In all applications, add the dry AMICAL 48 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, if formate is added dry prior to chrome. In the case of retan/color/fatliquor, add AMICAL 48 prior to the prime fatliquor feed.

USE IN WOOD PRESERVATION - (FOR FORMULATING USE ONLY)

AMICAL 48 can be used for control of mildew, sapstain, and wood rotting organisms. Incorporate AMICAL 48 into appropriate vehicles to protect wood from stain and decay. AMICAL 48 can be utilized in either aqueous or solvent-based systems at concentrations ranging from 0.3-1.0% (w/w). Solvent-based systems containing mineral spirits require a suitable co-solvent for the incorporation of AMICAL into the system. Formulators are responsible for obtaining EPA registration of formulated products.

USE IN METALWORKING FLUIDS

AMICAL 48 is recommended for use in metalworking fluids and lubricants to prevent fungal growth. The level of AMICAL 48 to be incorporated into metalworking fluid concentrate will vary depending upon the dilution factor recommended by the manufacturer. For efficient fungistatic activity, a concentration 100 to 3000 ppm of AMICAL 48 in the diluted fluid is suggested. AMICAL 48 should be dissolved in an appropriate solvent prior to addition to the metal working fluid.

USE IN RUBBER AND PLASTIC PRODUCTS

AMICAL 48 is recommended for PVC, polyurethane, rubber, thermoplastic rubber and other polymeric based products, coating, adhesives, foams, and sealants requiring protection against microbial deterioration. For control of microbial deterioration use 0.1-0.8% AMICAL 48 based upon total weight of solids in the formulation. AMICAL 48 can be incorporated into the formulation at any convenient stage of the manufacturing process.

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 0.5 to 5.0 lb of AMICAL 48 per 1000 lb of dry fabric (500-5,000 ppm) is needed. AMICAL 48 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.

Under the
Fungicide
amended
register