The Dow Chemical Company  
1803 Building  
Midland, MI 48674  

Attention: Rhonda Vance-Moeser  
Senior Regulatory Specialist  

Subject: UCARCIDE™ 50 Antimicrobial  
EPA Registration No. 464-704  
Notification Dated March 17, 2010  

This will acknowledge receipt of your notification, submitted under the provisions of FIFRA Section 3(c)(9).

Proposed Notification
- To update the label to reflect certain uses not registered in the State of California

General Comments

Based on a review of the submitted material, the following comments apply.

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been made a part of your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,

[Signature]

Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)
Application for Pesticide - Section I

1. Company/Product Number
   464-704

2. EPA Product Manager
   MARSHALL SWINDELL

3. Proposed Classification
   Restricted

4. Company/Product (Name)
   The Dow Chemical Co/ UCARCIDE 50 Antimicrobial

5. Name and Address of Applicant (Include ZIP Code)
   The Dow Chemical Company
   1803 Building
   Midland, MI 48674

6. Expeditied Review. In accordance with FIFRA Section 3(c)(3)
   (b)(l), my product is similar or identical in composition and labeling
   to:
   [ ] EPA Reg. No. _______________

Section - II

[ ] Amendment - Explain below.
[ ] Final printed labels in response to Agency letter dated
[ ] Resubmission in response to Agency letter dated
  "Me Too" Application.
[ ] Notification - Explain below.
[ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to update label to indicate certain uses not registered in the state of California. Enclosed cover letter reflects the required Notification Statement.

Section - III

1. Material This Product Will Be Packaged In:

   Child-Resistant Packaging
   [ ] Yes
   [ ] No
   * Certification must be submitted

   Unit Packaging
   [ ] Yes
   [ ] No

   Water Soluble Packaging
   [ ] Yes
   [ ] No

   Type of Container
   [ ] Metal
   [ ] Plastic
   [ ] Glass
   [ ] Paper
   [ ] Other (Specify)

2. Type of Container
   [ ] On Label
   [ ] On Label, accompanying product

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

   Name
   Rhonda Vance-Moeser

   Title
   Sr. Regulatory Specialist

   Telephone No. (include Area Code)
   989-636-1884

   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.

2. Signature
   Rhonda Vance-Moeser

3. Title
   Sr. Regulatory Specialist

4. Typed Name
   Rhonda Vance-Moeser

5. Date
   March 17, 2010

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.
March 17, 2010

The Dow Chemical Company
Midland, Michigan 48674
USA

RE: NOTIFICATION – EPA REG. NO. 464-704
UCARCIDETM 50 Antimicrobial

To Whom It May Concern:

The Dow Chemical Company (Dow) hereby submits a Notification application to update the label to indicate certain uses are not registered in the state of California. In order for the application to be processed the required Notification statement is below.

“This Notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject enforcement action and penalties under section 12 and 14 of FIFRA”

Enclosed are the following documents to support this Notification
1) Completed application, Pesticide Registration, Form 8570-1.
2) One marked copy of the label indicating the change highlighted.
3) Two copies of final label.

Please contact me if you have any questions or need additional information.

Sincerely,

Rhonda Vance-Moeser
Senior Regulatory Specialist
1790 Bldg. / Office 226
Midland, MI 48667
Phone: (989) 636-1884
e-mail: rgvmoeser@dow.com

Enclosures

TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
GENERAL PREVENTIVE USE
UCARCIDE 50 Antimicrobial is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-toto processes and products, to control the growth of bacteria and fungi. For effective control of growth, add UCARCIDE 50 Antimicrobial to the product formulation at a rate of 0.02% to 0.2% (0.2 to 2.0 lbs per 1,000 gallons) based on the water content of the product. (0.2 to 2.0 lbs UCARCIDE 50 Antimicrobial per 1,000 lbs water content). Mix uniformly.

PRESERVATIVE FOR CONCENTRATES
In use for concentrates where effective preservation is needed after dilution, add UCARCIDE 50 Antimicrobial to the product formulation at a rate such that the diluted end-use product will contain 0.02% to 0.2% UCARCIDE 50 Antimicrobial. The antimicrobial treatment process should meet the standard for the level of UCARCIDE 50 Antimicrobial exceed 2%.

REVERSE OSMOSIS MEMBRANES
For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturers), immerse elements in a tank containing 0.2% to 2.0% UCARCIDE 50 Antimicrobial. UCARCIDE 50 Antimicrobial can also be added to two-stage biocide systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturers). Add 0.2% to 2.0% UCARCIDE 50 Antimicrobial to the tank in the circulating system. Maintain the concentration of UCARCIDE 50 Antimicrobial by periodic addition to counteract any system leakage.

CONCRETE ADIMIXTURES
For effective preservation of concrete admixtures, UCARCIDE 50 Antimicrobial to the product formulation at a rate of 2.0 to 10.0 gals UCARCIDE 50 Antimicrobial per 1,000 lbs. concrete admixture). Mix uniformly.

WATER FLOWS
UCARCIDE 50 Antimicrobial should be added to a water flood system at a point of uniform mixing such as the water pipe or water line. Where water is in use for containers such as the basin area. Additions may be made intermittently (SLUG DOSE) or continuously (Dose Range: 0.09 to 4.4 gallons UCARCIDE 50 Antimicrobial per 1,000 gallons flood water). Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 20 to 5.000 ppm UCARCIDE 50 Antimicrobial (0.02 to 4.4 gallons UCARCIDE 50 Antimicrobial per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

FRAC FLUIDS
Products not registered for this use in the State of California. UCARCIDE 50 Antimicrobial reduces bacterial contamination and deterioration of fracturing fluids and gels used in oil and gas well stimulation. Use UCARCIDE 50 Antimicrobial to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped downhole. Dose Range: UCARCIDE 50 Antimicrobial should be added to a water production or transmission line via direct injection. The application rate should be sufficient to ensure maximum distribution of UCARCIDE 50 Antimicrobial throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the UCARCIDE 50 Antimicrobial with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 2,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

OIL PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS
Product not registered for this use in the State of California. UCARCIDE 50 Antimicrobial should be added to an oil production or transmission pipeline via direct injection. The application rate should be sufficient to ensure maximum distribution of UCARCIDE 50 Antimicrobial throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the UCARCIDE 50 Antimicrobial with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 2,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS
UCARCIDE 50 Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application rate should be sufficient to ensure maximum distribution of UCARCIDE 50 Antimicrobial throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the UCARCIDE 50 Antimicrobial with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 2,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS
Individual injection wells should be treated with a sufficient quantity of UCARCIDE 50 Antimicrobial to produce a concentration of 500 to 2,000 ppm UCARCIDE 50 Antimicrobial when diluted by the water present in the formation. Injection should take place before or after injection, as is recommended by the water storage tank or vessel manufacturer. Individual injection wells should be treated with a sufficient quantity of UCARCIDE 50 Antimicrobial to produce a concentration of 500 to 2,000 ppm UCARCIDE 50 Antimicrobial when diluted by the water present in the injection. Injections should be repeated weekly, or as needed to maintain control.

OIL STORAGE WELLS AND SYSTEMS
UCARCIDE 50 Antimicrobial should be added to water systems that contain ultra filtration units and non-medical Sterilizers and Warmers. UCARCIDE 50 Antimicrobial should be added to an oil production or transmission line via direct injection. The application rate should be sufficient to ensure maximum distribution of UCARCIDE 50 Antimicrobial throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the UCARCIDE 50 Antimicrobial with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 2,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

PIPELINE PIGGING AND SCRAPING OPERATIONS
Add UCARCIDE 50 Antimicrobial to a slug of water immediately following the scraper (directly this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient UCARCIDE 50 Antimicrobial should be added to produce a concentration of 0.1 to 1% (0.01 to 0.9 gals UCARCIDE 50 Antimicrobial per 100 gals water), depending on the type of pipe and the severity of biofouling.

NOTICE
Do Not Ship or Store with Food, Feeds, Drugs, or Clothing
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGERS

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled, may be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, or on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and butyl or nitrile gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 HANDLING

UCARICIDE 50 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. UCARICIDE 50 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -6°F (-21°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (28°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFOLON® Polymer is suitable for gaskets and packing. Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Proper disposal of excess pesticides, 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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Label option for nonrefillable containers of all sizes

Nonrefillable container. Do not reuse or refill this container. Triple or pressure rinse container (or equivalent) promptly after use. Then offer for reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities.

Option to use for labels on refillable containers of all sizes

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning of the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for reconditioning if available, or puncture and dispose of in a sanitary landfill, or other procedures allowed by state and local authorities.

BEFORE HANDLING OR USING THIS PRODUCT, SEE YOUR EMPLOYER AND READ CURRENT MATERIAL SAFETY DATA SHEET.

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 WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

UCARICIDE® 50 Antimicrobial

A highly effective Microbiocide for use in controlling Bacteria including Slime Forming Bacteria and those that contain Reverse Osmosis Membranes and Service Water and Auxiliary Systems, Heat Transfer Water Systems, Pigments and Filler slurries for Paper and Paperboard, Water Based Coatings for Consumer Processes and Products and for use in Preserving Aqueous-Based Solutions, Slurries or Storage Solutions and Equipment such as Steam-Injection Water Holding Tanks, Fixed Water Treatment, Water Handling Systems and for use by Manufacturers and Formulators in Formulating Products for

Recent ingredient:

Glutaraldehyde .......................................................... 50%

Inert Ingredient(s) .................................................. 50%

Total ................................................................. 100%

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID

IF SWALLOWED:

• Call a poison control center or a doctor for further treatment advice.
• DO NOT INDUCE VOMITING.
• Do not give anything to drink.

IF IN EYES:

• Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.
• Call a poison control center or a doctor immediately for treatment advice.

IF ON SKIN OR CLOTHING:

• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or a doctor for further treatment advice.

IF INHALED:

• Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or a doctor for further treatment advice.

NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contaminate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

IN CASE OF AN EMERGENCY:

A知道 should be added to the by the person handling this product.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

E.P.A. Registration No: 161-704
E.P.A. Est. XXXXXX

Produced for:

The Dow Chemical Company
Midland, Michigan 48674 U.S.A.

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NET CONTENTS: XXX gallons
NET WEIGHT: XXX lb / XXX kg
LOT NO:
It is a violation of Federal Law to use this product for any purpose except as directed herein. (See Note Below)