464-700 10/14/2006 1/5

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency Office of Pesticide Programs

Maureen Miksztal
The Dow Chemical Company
1803 Building
Midland, Mi 48674

Subject: UCARCIDE 14
EPA Registration No. 464-700 ✓

UCARCIDE 42
EPA Registration No. 464-702

Amendments Dated April 7, 2006 and June 12, 2006

Dear Ms. MikSztal:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments/conditions listed below:

- To Add Several Additional Organisms

Conditions

1. The efficacy Data submitted to support the proposed label claims that the above product, is an effective sanitizer for use on non-food contact surfaces against "Foot and Mouth Disease virus for a contact time of 10 minutes at a dilution of 0.1 to 0.25% active is not acceptable. Label claims referencing Foot and Mouth Disease virus must be removed form the proposed label until the identified deficiencies are addressed. (See attached copy of the efficacy review)

2. The following changes must be made to the proposed label:

   - Under the "Product dilution" section, change "Corona virus" to read "Coronavirus" and change "Circo Virus to read "circovirus".

   - The proposed label must list the types of surfaces (e.g., glass, painted wood, stainless steel) on which the product is recommended for use. DIS/TSS-15 requires that this information be included on the product label; This information is not optional.

   - Add a new "step 1" under the "Sanitizing Non-Food Contact Surfaces, Farm, Animal, and Poultry Housing Facilities and Equipment" section that reads: "Remove filth and soil deposits from surfaces prior to treatment." Note: If claims for Foot and Mouth Disease virus claims are ever approved, the label must include the following statement in the new "step 1:" "Pre-clean surfaces with a suitable detergent and rinse with water." This revision is necessary because surfaces must be preclean prior to using the product. Efficacy testing against Food and Mouth Disease virus was not conducted in the presence of moderate soil loads.

   - Under the "Farm Equipment and Animal Housing Buildings" section, revise "step 4" to read:" "Allow to stand for at least 5 minutes, or for a longer time depending on the organisms being treated. (See Product Dilution, above.)"

   - Under the "Hatchers, Setters, and Chick Processing Facilities" section, revise the second to last sentence in "step 1" to read: "Allow to stand for at least 5 minutes, or for a longer time depending on the organisms being treated. (See Product Dilution, above.)"

   - Note: If Foot and Mouth Disease virus claims are ever approved, the label should be revised as follows (in the "Trays, Racks, Carts..." section and the "Trucks and Other vehicles" section to include): "Remove all filth and heavy debris from surfaces by scraping or washing. Pre-clean surfaces with a suitable detergent and rinse with water." This revision is necessary because surfaces must be pre-cleaned prior to using the product.

   - Under the "Trays, Racks, Carts..." section and the "Trucks and Other Vehicles" section, revise the directions to include a contact time.

   - Under the "Sanitizing Non-Food Contact Surfaces, Industrial Equipment and Buildings" section, revise the second to last sentence to read: "Allow to stand for at least 5 minutes, or for a longer time depending on the organisms being treated. (See Product Dilution, above.)"

4. Information identifying the doses (i.e., % active, ppm active, ounces per gallon) for the industrial applications is inconsistent. For example, the dilution rate for the "Water Floods" application states to add 300-15000 ppm of product (0.3-14.5 gallons per 1000 gallons of water). A 300-15000 ppm solution is equivalent to a 0.03-1.5 % active solution; whereas, a I0.3-14.5 gallons/1000 gallons solution is equivalent to a 0.005-0.24% active solution. The doses for all industrial applications need to be reviewed.

5. On the proposed label, the following statement "A Highly Effective Microbiocide for Use in Controlling Bacteria including slime forming bacteria (Pseudomonas sp., Enterobacter sp., Klebsiella sp., Acinetobacter sp., Serratia sp., and Bacillus sp.,)" must be revised or removed completely. The Agency views "slime-forming" organisms as non-public health. The bacteria listed are public health organisms, as supported by their placement in the section "Sanitizing Non-Food Contact Surfaces, Farm, Animal, and Poultry Housing Facilities and Equipment", on the proposed label.

6. Please remove the following bacteria from the proposed label, as efficacy data was not submitted or accepted for these organisms: Enterobacter sp., Klebsiella sp., Acinetobacter sp., Serratia sp., and Bacillus sp.

Acceptable Data

The proposed label claims are acceptable regarding the above product as a sanitizer for use on non-food contact surfaces against Avian Influenza (H5N1) virus and SARS-associated Coronavirus for a contact time of 5 minutes at a dilution of 0.06 to 0.24% active.

The proposed label claims are acceptable regarding the above product as a sanitizer for use on non-food contact surfaces against Porcine circovirus for a contact time of 5 minutes at a dilution of 0.1 to 0.25% active.

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4(a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely,

Marshall Swindell
Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510C)

Enclosure

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful 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, 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

UCARCIDE™ 14 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. UCARCIDE™ 14 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 27° F (-3° 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 (37.8° 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 TEFLON® 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.

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.

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

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. **Plastic Containers:** May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Metal Containers:** Must not be incinerated. Do not cut or weld on or near metal containers.

NOTICE
Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

65672-4/7/2006-1588

UCARCIDE™ 14 Antimicrobial

A HIGHLY EFFECTIVE MICROBIOCIDE FOR USE IN CONTROLLING BACTERIA INCLUDING SLIME FORMING BACTERIA (*PSEUDOMONAS SP., ENTEROBACTER SP., KLEBSIELLA SP., ACINETOBACTER SP., SERRATIA SP.,* AND *BACILLUS SP.*) AND SULFATE-REDUCING BACTERIA (*Desulfovibrio desulfuricans*) AND FUNGI (YEAST AND MOLDS) AND ALGAE IN AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS INCLUDING THOSE THAT CONTAIN REVERSE OSMOSIS MEMBRANES AND IN SERVICE WATER AND AUXILIARY SYSTEMS AND HEAT TRANSFER SYSTEMS AND IN WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND HOLDING TANKS, AND IN PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS AND WATER BASED COATINGS FOR PAPER AND PAPERBOARD AND IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, OIL FIELD WATER SYSTEMS, GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS, AND GAS STORAGE FIELDS AND EQUIPMENT; SUCH AS, STEAM-INJECTION WATER HOLDING TANKS, FLOOD WATER, INJECTION WATER, HOLDING POND WATER, DISPOSAL-WELL WATER, WATER HOLDING TANKS, FUEL STORAGE TANKS AND RELATED REFINERY AND OIL FIELD CLOSED, INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS AND AN INDUSTRIAL SANITIZER FOR USE IN CONTROLLING MICROBIAL CONTAMINATION IN ANIMAL PRODUCTION FACILITIES AND FARM EQUIPMENT SUCH AS POULTRY & TURKEY HOUSES, SWINE HOUSING AND FARROWING AREAS, BARNS AND LARGE ANIMAL BUILDINGS, HATCHERS, SETTERS, AND CHICK PROCESSING FACILITIES, CAGES AND TRANSPORT VEHICLES, AND HATCHING EGGS AND FOR SANITIZING INDUSTRIAL OR NON-FOOD CONTACT SURFACES SUCH AS EQUIPMENT FOR MIXING, PACKING, OR PACKAGING PRODUCTS, PRODUCT TRANSFER LINES, STORAGE TANKS, FLOORS AND WALLS AND FOR USE BY MANUFACTURERS AND FORMULATORS IN FORMULATING PRODUCTS FOR ANIMAL HOUSING AND INDUSTRIAL SANITIZING APPLICATIONS. FORMULATORS USING THIS PRODUCT ARE RESPONSIBLE FOR THE EPA REGISTRATION OF THEIR FORMULATING PRODUCTS.

Active Ingredient: Glutaraldehyde	14.0%
Alkyl (C_{14} 50%, C_{12} 40%, C_{16} 10%) dimethyl benzyl ammonium chloride	2.5%
Inert Ingredients:	83.5%
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER
FIRST AID

If swallowed:
- Call a poison control center or a doctor immediately for 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 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 contraindicate 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.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 464-700
EPA Est. No. 10352-WV-2 (A) ; 464-WV-1 (B)
EPA Est. No. 10352-WV-1 (C)
(A) 5 gallon pails in pallets; all drums; bulk
(B) Single 5 gallon pails only.
(C) Bulk Shipments

THE DOW CHEMICAL COMPANY
Midland, Michigan 48674 U.S.A.
(989)636-4400

L14349 (10306)
Made in USA
PE0306

* Trademark of THE DOW CHEMICAL COMPANY

Net Contents: 5, 55 gallons or Bulk

CONTAINER SIZE TOTE	CONTAINER SIZE 55 GALLONS	CONTAINER SIZE 5 GALLONS
2,290 POUNDS NET WEIGHT	484 POUNDS NET WEIGHT	44 POUNDS NET WEIGHT

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect, **(989)636-4400.**

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/ RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components

UCARCIDE 14 Antimicrobial should be added at the application rates described below to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with UCARCIDE 14 Antimicrobial. Under these conditions, blowdown should be discontinued for up to 24 hours.

UCARCIDE 14 Antimicrobial can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of UCARCIDE 14 Antimicrobial per 100 gallons of water in the system. Repeat until control is achieved

Subsequent Dose: When microbial control is evident, add 1.7 to 4.2 fluid ounces of UCARCIDE 14 Antimicrobial per 100 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of UCARCIDE 14 Antimicrobial per 100 gallons of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 0.8 to 4.2 fluid ounces of UCARCIDE 14 Antimicrobial per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

SERVICE WATER AND AUXILIARY SYSTEMS

UCARCIDE 14 Antimicrobial should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

UCARCIDE 14 Antimicrobial should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

UCARCIDE 14 Antimicrobial should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 20 to 96 fluid ounces (1.25 pints to 3 quarts) (1,600 to 7,600 ppm) UCARCIDE 14 Antimicrobial per 1000 gallons of wastewater or sludge.

PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

UCARCIDE 14 Antimicrobial should be added to a paper making system at a point of uniform mixing such as the thin or thick stock chest, save-all tank, process tank or white-water tank.

Initial Treatment: When the system is noticeably contaminated, add 1.5 to 9.0 lb of UCARCIDE 14 Antimicrobial per ton or 0.76 to 4.5 Kg of UCARCIDE 14 Antimicrobial per metric ton of pulp or paper (dry basis) as a continuous or slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

Subsequent Dose: When microbial control is evident, add 0.9 to 6.0 lb of UCARCIDE 14 Antimicrobial per ton or 0.46 to 3.0 kg of UCARCIDE 14 Antimicrobial per metric ton of pulp or paper (dry basis) as necessary to maintain control.

WATER BASED COATINGS, PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD

NOTE: For use in non-food contact coatings only.

Add 0.3 to 1.8 lbs of UCARCIDE 14 Antimicrobial per 1,000 lbs dry powder or 0.3 to 1.8 Kg UCARCIDE 14 Antimicrobial per metric ton of dry slurry to produce a concentration of 300 to 1800 ppm as product (based on slurry solids) in the mixed slurry.

WATER FLOODS

UCARCIDE 14 Antimicrobial should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeably contaminated, add 300 to 15,000 ppm UCARCIDE 14 Antimicrobial to the system (0.3 to 14.5 gallons UCARCIDE 14 Antimicrobial per 1,000 gallons flood water) Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 60 to 15,000 ppm UCARCIDE 14 Antimicrobial (0.06 to 14.5 gallons UCARCIDE 14 Antimicrobial per 1,000 gallons flood water) to the system weekly, or as needed to maintain control

DRILLING, COMPLETION, AND WORKOVER FLUIDS

UCARCIDE 14 Antimicrobial should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank

Initial Treatment: Add 150 to 3,000 ppm UCARCIDE 14 Antimicrobial (0.6 to 12.2 gallons UCARCIDE 14 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 150 to 3,000 ppm UCARCIDE 14 Antimicrobial by adding 0.6 to 12.2 gallons of UCARCIDE 14 Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS

UCARCIDE 14 Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 150 to 1,800 ppm UCARCIDE 14 Antimicrobial (0.6 to 7.3 gallons UCARCIDE 14 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

UCARCIDE 14 Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of the UCARCIDE 14 Antimicrobial through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute the UCARCIDE 14 Antimicrobial with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control

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