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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

4 2008

APR

The Dow Chemical Company 1803 Building Midland, MI 48674

Attention: Mauren Synder Regulatory Manager

Subject:

UCARCIDE 14 Antimicrobial EPA Reg. No. 464-700 Amendment Application Date: March 17, 2008 EPA Received Date: March 17, 2008

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable The Agency has no objection to include labeling changes to the use directions to limit the products use to non-porous surfaces.

If you have any questions concerning this letter, please contact Demson Fuller at (703) 308-8062.

Sincerel

Marshall Swindell Product Manager (33) Regulatory Management Branch 1 Antimicrobials Division (7510C)

UCARCIDE[™]

A HIGHLY EFFECTIVE MICROBIOCIDE FOR USE IN CONTROLLING BACTERIA INCLUDING SLIME FORMING BACTERIA AND SULFATE-REDUCING BACTERIA 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 VASTEWATER 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 ON 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 YEHICLES, AND FARROWING AREAS, BARNS AND LARGE ANNAL BUILDINGS, PRODUCT TRANSFER LINES, STORAGE TANKS, FLOORS AND WALLS AND FOR USES, WMANUFACTURERS AND FORMULATORS IN FORMULATING PRODUCTS, PRODUCT TRANSFER LINES, STORAGE TANKS, FLOORS AND WALLS AND FOR USES BY MANUFACTURERS AND FORMULATORS IN FORMULATORS USING THIS PRODUCT ARE RESPONSIBLE FOR THE EPA REGISTRATION OF THEIR FORMULATING PRODUCTS.

Antimicrobial

Active Ingredient: Glutaraldehyde	. 14.0%
dimethyl benzyl ammonium chloride Inert Ingredients: Total:	. <u>83.5%</u>

KEEP OUT OF REACH OF CHILDREN DANGER FIRST ANA CCEPTED If swallowed: Call a poison control center or a doctor immediately for treatment advice. DO NOT INDUCE VOMITING. 2008 · Do not give anything to drink. In eyes: Wash immediately and continuously with flowing water for at least 30 minutes for the secticide. Fungicide, and Remove contact lenses after the first 5 minutes and continuously with flowing water for at least 30 minutes for the medical consultation, preferably from an ophthalmologistic de, registered under Call a poison control center or a doctor immediately the treatment advice. 464-700 If on skin or clothing: If in eves: 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. may contraindicate the use of gastric lavage. poison control center or a doctor, or going for treatment. SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS Produced for: E E E (A (B)) Dow The Dow Chemical Company Midland, Michigan 48674 U.S.A. (K 03/08) (989)636-4400 و فن

NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage

Have the MSDS and, if available, the product container or label with you when calling a

PA Reg. No. 464-700	
PA Est. No. 10352-WV-2 (A);	,464-WV-1 ⁽⁸
PA Est. No. 10352-WV-1 (C)	
A) 5 gallon pails in pallets; all	drums; bulk
B) Single 5 gallon pails only	
C) Bulk Shipments	
	12 00/00

PE0308

®TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow Made in U.S.A. Net Contents: 5, 55 gallons or Bulk

CONTAINER SIZE TOTE 260.8 GALLONS	CONTAINER SIZE 55 GALLONS	CONTAINER SIZE 5 GALLONS
2,290 POUNDS	470 POUNDS	44 POUNDS
NET WEIGHT	NET WEIGHT	NET WEIGHT

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

PRECAUTIONARY STATEMENTS HAZ DS TO HUMANS AND DOMESTIC ANIMA 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

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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 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 (28.7° 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 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

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GAS STORAGE WELLS AND SYSTEMS

Individual injection wells should be treated with a sufficient quantity of UCARCIDE 14 Antimicrobial to produce a concentration of 1,500 to 15,000 ppm UCARCIDE 14 Antimicrobial when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated water, or a product to emitted and the summer. yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of UCARCIDE 14 Antimicrobial to produce a concentration of 600 to 6,000 ppm UCARCIDE 14 Antimicrobial when diluted by the water present in the drip. Injections should be repeated yearly. or as needed to maintain control.

HYDROTESTING

Water used to hydrotest pipelines or vessels should contain 300 to 12,000 ppm UCARCIDE 14 Antimicrobial (0.3 to 11.6 gallons UCARCIDE 14 Antimicrobial per 1,000 gallons water), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS

Add UCARCIDE 14 Antimicrobial to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient UCARCIDE 14 Antimicrobial should be added to produce a concentration of 0.3 to 3.0% (0.3 to 2.9 gallons UCARCIDE 14 Antimicrobial per 106 gallons water), depending on the length of the pipeline and the severity of biofouling. SANITIZING NON-FOOD CONTACT SURFACES, FARM, ANIMAL, AND POULTRY HOUSING FACILITIES AND EQUIPMENT

Not for use in the state of California DO NOT USE THIS PRODUCT ON FOOD OR FEED

UCARCIDE 14 Antimicrobial is suitable for use on a wide variety of surfaces including stainless steel, aluminum, painted concrete, plastic, glazed tile.

Product Dilution:

To sanitize vegetative pathogens (including Klebsiella pneumoniae, Salmonella cholerasuis, Staphylococcus aureus, and Pseudomonas aeruginosa) and viruses (including Infectious bursal disease, Avian influenza (H6N2 and H5N1), SARS Associated Coronavirus, Porcine circovirus and fungus (including Aspergillus furnigatus):

- 1. Remove fifth and soil deposits from surfaces prior to treatment. Pre-clean surfaces with a suitable detergent and rinse with water.
- 2. Thoroughly saturate all surfaces using a mop or by spraying with a solution prepared by mixing 0.45 to 1.8 fluid ounces of UCARCIDE 14 Antimicrobial per gallon of water (3.5 to 14.1 milliliters per liter) to produce a solution containing 0.06% to 0.24% active ingredient. For application against Porcine circovirus mix 0.9 to 2.2 fluid ounces of UCARCIDE 14 Antimicrobial per gallon of water (6.9 to 17.3 milliters per liter) to produce a solution containing 0.1 to 0.25% active glutaraldehyde ingredient.
- 3. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals,
- as well as forks, shovels, and scraper used for removing litter and manure.
- 4. Allow to stand for at least 5 minutes, or until thoroughly dried.
- 5. Ventilate thoroughly before reuse.
- 6. Fresh solution should be prepared daily or more often if the solution becomes diluted or soiled. Farm Equipment and Animal Housing Buildings

(poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings) Before applying UCARCIDE 14 Antimicrobial:

- 1. Remove all poultry and other animals and feed from the premises. Remove all portable equipment and empty all feeders and water troughs. If not removed, all treated feeders and waterers must be thoroughly rinsed with potable water prior to re-use.
- 2. Remove all litter and manure from floors and other surfaces. If litter is not removed, allow to stand after treatment with UCARCIDE 14 Antimicrobial for at least ten minutes before repopulation
- 3. Using suitable commercially available equipment, saturate all surfaces with diluted UCARCIDE 14 Antimicrobial (see Product Dilution, above).
- 4. Allow to stand for at least 5 minutes, or for longer depending on the organisms being treated (see Product Dilution above).
- 5. Ventilate enclosed spaces.
- 6. Do not repopulate with poultry or other animals, or use equipment until treatment has been absorbed or dried. Hatchers, Setters, and Chick Processing Facilities
- 1. General sanitizing of environmental surfaces prior to introduction of eggs; Remove all animals from the area. Clean out feathers, fluff, or other debris. Thoroughly saturate all surfaces with a solution prepared by mixing the appropriate amount (see Product Dilution, above) of UCARCIDE 14 Antimicrobial with water. Allow to stand for at least 5 minutes, or for longer depending on the organisms being treated. (See Product Dilution, above.) Ventilate thoroughly before reuse.
- 2. Treatment of air and surfaces after introduction of eggs in high humidity hatchers and setters with water spray cooling: Prepare a solution by mixing the appropriate amount of UCARCIDE 14 Antimicrobial with water. Allow to stand for at least 5 minutes, or for longer depending on the organisms being treated. (See Product Dilution, above.) Fog or atomize this solution into setters or hatchers, using appropriate application equipment.
 - Treatment of air and surfaces after introduction of eggs in low humidity hatchers with chilled coil cooling: Fog or atomize this product using appropriate application equipment.
 - Trays, Racks, Carts, Chick Boxes, Cages, and other Hard Surfaces:

Remove all filth and heavy debris from surfaces by scraping or washing. Prepare a solution by mixing the appropriate amount (see Product Dilution, above) of UCARCIDE 14 Antimicrobial with water. Apply by spraying or immersion, and allow to drain and air dry. Allow to stand for at least 5 minutes, or for longer depending on the organisms being treated. (See Product Dilution, above.)

Trucks and other Vehicles

Remove all filth and heavy debris from surfaces by scraping or washing. Spray surfaces with a solution prepared by mixing the appropriate amount (see Product Dilution, above) of GLUTEX GQ1 Sanitizer with water. Allow to stand for at least 5 minutes, or for longer depending on the organisms being treated.

Egg Sanitization

(for treating hatching eggs only)

Prepare a solution by mixing one fluid ounce of UCARCIDE 14 Antimicrobial with one gallon of water. Place in a bath at 105* to 115*F (40° to 45°C). Place freshly laid eggs in plastic trays and dip briefly (10 to 15 seconds), then allow to drain and air-dry.

SANITIZING NON-FOOD CONTACT SURFACES, INDUSTRIAL EQUIPMENT AND BUILDINGS

*Not for use in the state of California

Before applying UCARCIDE 14 Antimicrobial, rémove heavy filth and soil deposits from surfaces using a suitable cleaner. Ditute UCARCIDE 14 Antimicrobial to 0.06% to 0.24% active ingredient by mixing 0.45 to 1.8 fluid ounces of UCARCIDE 14 Antimicrobial per gallon of water (3.5 to 14.1 milliters per liter). Using suitable commercially available equipment, saturate all surfaces with dituted UCARCIDE 14 Antimicrobial. Allow to stand for al least 5 minutes, or for longer time depending on the organisms being treated. (See Product Dilution, above.) Ventilate ordered mage. enclosed spaces

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-elim components.

UCARCIDE 14 Antimicrobial should be added at the application rates described below to a water tree system at a convenient point of uniform mixing such as the basin area. Addition may be made intern (SLUG DOSE) or continuously. Badly foulded systems can be shock treated with UCARCIDE 14 Antimi 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 filtratii and non-medical reverse osmosis membranes (where approved for compatibility by the mer 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 UCARC 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 UCARC 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 UCARC 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 ou UCARCIDE 14 Antimicrobial per 100 gations 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 ma described above. It should be added to the system at a point that will allow for uniform mixing through system.

HEAT TRANSFER SYSTEMS

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

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

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 uniform mixing such as the digester. Add 20 to 96 fluid ounces (1.25 pints to 3 quarts) (1,600 to 7,60 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 the thin or thick stock chest, save-all tank, process tank or while-water tank.

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

Subsequent Dose: When microbial control is evident, add 0.9 to 6.0 lb of UCARCIDE 14 Antimicrobia of 0.46 to 3.0 kg of UCARCIDE 14 Antimicrobial per metric ton of pulp or paper (dry basis) as nece 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 UCAR Antimicrobial per metric ton of dry slurry to produce a concentration of 300 to 1800 ppm as product (b 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 UCAR(Antimicrobial to the system (0.3 to14.5 gallons UCARCiDE 14 Antimicrobial per 1,000 gallons floor Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 60 to 15,000 ppm UCARCIDE 14 Antir (0.06 to 14.5 gallons UCARCIDE 14 Antimicrobial per 1,000 gallons flood water) to the system week 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 suc circulating mud tank.

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

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

PACKER FLUIDS

UCARCIDE 14 Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a c holding tank. Add 150 to 1,800 ppm UCARCIDE 14 Antimicrobial (0.6 to 7.3 gallons UCARt Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamina 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 nite. The application should be conducted to ensure maximum distribution of the UCARCIDE 14 Antimicrobia the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute the UCAI 14 Antimicrobial with an appropriate softent immediately before user interchange to the system should be or as needed to maintain protocol.

