

464-700

7/8/2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL -8 2004

The Dow Chemical Company  
1803 Building  
Midland, MI 48674

Attention: Maureen Mikszal  
Senior Regulatory Specialist

Subject: UCARCIDE 14 Antimicrobial  
EPA Registration No. 464-700  
Amendment Dated March 15, 2004

The amendment, submitted in connection with registration under the FIFRA sec. 3(c)(7)(A), to add oilfield claims, to modify the first aid for the eye, to add sanitizer claims and paper claims, to add ventilation information to storage and handling section, to update the identifying statement, to add new MSDS statement and text revision in the directions for use to correct the dosing for density of glutaraldehyde and to add oilfield claims, sanitizer claims and paper claims, and addition of new phrase to the precautionary statement. To change the primary product name from "UCARCIDE 514 Water Treatment Microbiocide" to "UCARCIDE 14 Antimicrobial". Also to include two additional brand names "UCARSAN 414 Sanitizer" and "AQUCAR 514 Water Treatment Microbiocide" and to amend the alternate Confidential Statement of Formula, is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec.3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of final printed labeling before you release the product for shipment.

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

CONCURRENCES

CONCURRENCES								
SYMBOL								
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General Comments

The two (2) requested alternate brand names “UCARSAN 414 Sanitizer” and AQUCAR 514 Water Treatment Microbiocide” are acceptable.

Your request to change the primary product name of your registration from “UCARCIDE 514 Treatment Microbiocide” to UCARCIDE 14 Antimicrobial” is acceptable.

On the proposed label, change “Corona virus” to “Coronavirus”. Refer to the enclosed Product Chemistry Review for additional labeling deficiencies.

A stamped copy of the accepted labeling is enclosed for your records.

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

Sincerely



Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
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 mixtures 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 metal containers.



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

**UCARCIDE™ 14  
Antimicrobial**

A HIGHLY EFFECTIVE MICROBIOCIDICIDE 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 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.

Active Ingredient: Glutaraldehyde.....	14%
Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride .....	2.5%
Inert Ingredients: .....	83.5%
Total.....	100%

**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.

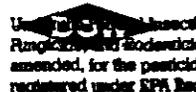
**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

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.**

**ACCEPTED  
with COMMENTS  
in EPA Label Data:**

JUL 0 8 2004



THE DOW CHEMICAL COMPANY  
Midland, Michigan 48674 U.S.A.  
800-258-CHEM  
registered under EPA Reg. No.

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

L14349 (H 03/04)  
Made In USA  
PE0304

Net Contents: 5, 55 gallons or Bulk

CONTAINER SIZE	CONTAINER SIZE
55 GALLONS	5 GALLONS
484 POUNDS	44 POUNDS
NET WEIGHT	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 the 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 eliminating components.

UCARCIDE™ 14 Antimicrobial should be added at the application rates described below, to a 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 24 hours.

UCARCIDE™ 14 Antimicrobial can be used in industrial process water systems that contain ultrafiltration units and non-medical reverse osmosis membranes (where approved for compatibility by 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 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 Sweetener Systems, Hydrostatic Sterilizers and Retorts, and Teurizers 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 the steam area, sump area or other reservoir or collecting area from which the treated water is 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 to 7,600 ppm) of UCARCIDE™ 14 Antimicrobial per 100 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 fouled, add 1.5 to 9.0 lb of UCARCIDE™ 14 Antimicrobial per ton or 0.78 to 4.5 Kg of UCARCIDE™ 14 Antimicrobial per metric ton of pulp per (dry basis) as a continuous or slug dose. Repeat until control is achieved. Heavily fouled systems should be bailed 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 per (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 per metric ton of dry slurry to produce a concentration of 300 to 1800 ppm as (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 flood water). Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 80 to 15,000 ppm UCARCIDE™ 14 Antimicrobial (0.06 to 14.5 gallons UCARCIDE™ 14 Antimicrobial per 1,000 gallons flood water 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 severity of contamination.

**Maintenance Dosage:** Maintain a concentration of 150 to 3,000 ppm UCARCIDE™ 14 Antimicrobial adding 0.6 to 12.2 gallons of UCARCIDE™ 14 Antimicrobial per 100 barrels of additional fluid 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 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 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 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 able to dilute the UCARCIDE™ 14 Antimicrobial with an appropriate solvent immediately before injections to the system should be weekly, or as needed to maintain control.