

464-688

6/8/2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1/3

JUN 8 2004

The Dow Chemical Company  
1500 E. Lake Cook Road  
Buffalo Grove, IL 60089

Attention: Maureen Miksztal  
Senior Regulatory Specialist

Subject: UCARCIDE 25 Antimicrobial  
EPA Registration No. 464-688  
Amendment Dated March 12, 2004

The amendment, submitted in connection with registration under the FIFRA sec. 3(c)(7)(A), to modify the first aid for the eye, 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, to add water treatment, paper, metalworking and preservative claims, to change the primary product name to "UCARCIDE 25 Antimicrobial" and to amend the Basic and Alternate Confidential Statements of Formulas (CSFs), 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

SYMBOL								
SURNAME								
DATE								

Page 2

General Comments

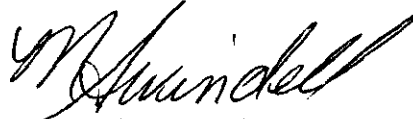
The Basic and Alternate Confidential Statement of Formulas dated March 12, 2004 are acceptable.

Your request to change the primary product name of your registration from "UCARCIDE 125 Antimicrobial" to UCARCIDE 25 Antimicrobial" is acceptable.

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

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™ 25 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™ 25 Antimicrobial. Under these conditions, blowdown should be discontinued for up to 24 hours.  
UCARCIDE™ 25 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 24 to 48 fluid ounces of UCARCIDE™ 25 Antimicrobial per 1,000 gallons of water in the system. Repeat until control is achieved.  
**Subsequent Dose:** When microbial control is evident, add 9.6 to 24 fluid ounces of UCARCIDE™ 25 Antimicrobial per 1,000 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 24 to 48 fluid ounces of UCARCIDE™ 25 Antimicrobial per 1,000 gallons of water in the system.  
**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 4.8 to 24 fluid ounces of UCARCIDE™ 25 Antimicrobial per 1,000 gallons of water in the system per day.  
Badly fouled systems must be cleaned before treatment is begun.

#### SERVICE WATER AND AUXILIARY SYSTEMS

UCARCIDE™ 25 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™ 25 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™ 25 Antimicrobial should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 10.8 to 54 fluid ounces (0.63 pints to 3.4 quarts) (900 to 4,500 ppm) UCARCIDE™ 25 Antimicrobial per 100 gallons of wastewater or sludge.

#### MACROFOULING CONTROL

\*Not for use in the state of California

UCARCIDE™ 25 Antimicrobial should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.  
**Initial Dose:** When macrofouling is present in the system, apply 9.6 fluid ounces of UCARCIDE™ 25 Antimicrobial per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20 ppm active ingredient level for a period of at least 96 hours.

#### PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

UCARCIDE™ 25 Antimicrobial should be added to the paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white-water tank.

**Initial Dose:** When the system is noticeably contaminated, add 1.0 to 6.0 lbs of UCARCIDE™ 25 Antimicrobial per ton of pulp or paper (dry basis) as a 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 0.6 to 4.0 lbs of UCARCIDE™ 25 Antimicrobial per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

#### PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD

For use in food and non-food contact pigments and filler slurries

Use from 0.2 to 1.2 lbs. of UCARCIDE™ 25 Antimicrobial per 1,000 lbs. dry powder to produce a concentration of 200 to 1200 ppm as product (based on slurry solids) in the mixed slurry

#### WATER BASED COATINGS

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

Use from 0.2 to 1.2 lbs. of UCARCIDE™ 25 Antimicrobial per 1,000 lbs. dry powder to produce a concentration of 200 to 1,200 ppm as product (based on slurry solids) in the mixed slurry.

#### AQUEOUS METALWORKING FLUIDS

UCARCIDE™ 25 Antimicrobial should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made intermittently (SLUG DOSE) at intervals of one week or less.

**Initial Dose:** When the system is noticeably fouled apply 4.8 to 14.4 fluid ounces (100 to 300 ppm active) of UCARCIDE™ 25 Antimicrobial per 100 gallons of metalworking fluid to the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 1.9 to 9.6 fluid ounces (40 to 200 ppm active) of UCARCIDE™ 25 Antimicrobial per 100 gallons of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment begins.

#### WATER BASED CONVEYOR LUBRICANTS

(Brewery, Juice, Dairy, Beverage, and Food Processing Systems)

Avoid contamination of food in application of product.

Thoroughly clean all tracks and conveyors to remove gross soil. Rinse well. Use an automatic feed system as recommended by your DOW representative to provide 2.4 to 14.4 fluid ounces (50 to 300 ppm active) of UCARCIDE™ 25 Antimicrobial per 100 gallons of diluted lubricant.

# UCARCIDE™ 25 Antimicrobial

A highly effective Microbiocide for use in controlling Bacteria including Slime Forming Bacteria and Sulfate-Reducing Bacteria, 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 Service Water and Auxiliary Systems, Heat Transfer Systems, Wastewater Systems including Wastewater Sludge and Holding Tanks, Beet Sugar Mills and Beet Sugar Mill Process Water Systems, Paper Mills and Paper Mill Process Water Systems, Pigments and Filler Slurries for Paper and Paperboard, Water Based Coatings for Paper and Paperboard and Functional Fluids and Lubricants and Aqueous Metalworking Fluids and for use by Manufacturers as a Preservative in Industrial, Institutional and Consumer Processes and Products and for use in Preserving Aqueous-Based Solutions, Slurries and Emulsions and a Molluscicide for use in controlling Macrofouling in Service Water and Auxiliary Systems and Recirculating Cooling and Process Water Systems 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.

Active Ingredient: Glutaraldehyde ..... 25%  
Inert Ingredients: ..... 75%  
Total ..... 100%

ACCEPTED  
with COMMENTS

KEEP OUT OF REACH OF CHILDREN  
DANGER

FIRST AID

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended by the pesticide, registered under EPA Reg. No. 464-688

JUN 08 2004

ACCEPTED with COMMENTS  
Date: JUN 08 2004

**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. 464-688  
EPA Est. No. 10352-WV-2 (A), 464-WV-1 (B)  
(A) 5 gallon pails in pallets; all drums; bulk  
(B) Single 5 gallon pails only.



THE DOW CHEMICAL COMPANY  
Midland, Michigan 48674 U.S.A.  
1-800-258-CHEM  
\*Trademark of THE DOW CHEMICAL COMPANY

L90223 (G 03/04)  
Made in USA  
PE0304

CONTAINER SIZE	CONTAINER SIZE	CONTAINER SIZE
55 GALLONS	5 GALLONS	TOTE
500 POUNDS	44 POUNDS	2,394 POUNDS
NET WEIGHT	NET WEIGHT	NET WEIGHT

Net Contents: 5 or 55 gallons

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

### 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 attacks 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 authority. For guidance contact your State Water Board or Regional Office of the EPA.

### STORAGE AND HANDLING

UCARCIDE™ 25 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. UCARCIDE™ 25 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 14°F (-10°C). However, unless the storage tank is inside or underground, heating and insulation may be required. 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 90°F (26.7°C).

A stainless steel centrifugal pump is suggested for transfer service. Corral-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 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 container.

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