

464-702

3/26/2010

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



Office of Pesticide Programs

MAR 26 2010

The Dow Chemical Company  
1803 Building  
Midland, MI 48674

Attention: Rhonda Vance-Moeser  
Senior Regulatory Specialist

**Subject: UCARCIDE™ 42 Antimicrobial**  
EPA Registration No. 464-702  
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,

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



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 464-702		2. EPA Product Manager MARSHALL SWINDELL		3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted	
4. Company/Product (Name) The Dow Chemical Co./ UCARCIDE 42 Antimicrobial		PM# 33			
5. Name and Address of Applicant (Include ZIP Code) The Dow Chemical Company 1803 Building Midland, MI 48674 <input type="checkbox"/> Check if this is a new address			6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____		

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> 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:						2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container			4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____			

**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) 989-636-1384	
<p align="center"><b>Certification</b></p> <p>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.</p>					6. Date Application Received (Stamped)
2. Signature <i>Rhonda Vance-Moeser</i>		3. Title Sr. Regulatory Specialist			
4. Typed Name Rhonda Vance-Moeser		5. Date March 17, 2010			



The Dow Chemical Company  
Midland, Michigan 48674  
USA

March 17, 2010

Overnight Mail

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, Virginia 22202-4501

**RE: NOTIFICATION – EPA REG. NO. 464-702  
UCARCIDE™ 42 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](mailto:rgvmoeser@dow.com)

Enclosures

# UCARCIDE™ 42 Antimic

A HIGHLY EFFECTIVE MICROBIOCIDICIDE FOR USE IN CONTROLLING BACTERIA INCLUDING SLIME FORMING BACTERIA INCLUDING THOSE THAT CONTAIN REVERSE OSMOSIS MEMBRANES AND IN SERVICE WATER AND AUXILIARY SYSTEMS. BASED COATINGS FOR PAPER AND PAPERBOARD AND IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, FLOOD WATER, FRACTURING FLUIDS, INJECTION WATER, HOLDING POND WATER, DISPOSAL - WELL WATER, W CONTROLLING MICROBIAL CONTAMINATION IN ANIMAL PRODUCTION FACILITIES AND FARM EQUIPMENT SUCH AS PIG AND HATCHING EGGS AND FOR SANITIZING INDUSTRIAL OR NON-FOOD CONTACT SURFACES SUCH AS EQUIPMENT FOR ANIMAL HOUSING AND INDUSTRIAL SANITIZING APPLICATIONS. FORMULATORS USING THIS PRODUCT ARE RESPONSIBLE FOR

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**  
 Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through skin. Harmful if inhaled. 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 42 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. UCARCIDE 42 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 7°F (-14°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.

**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 Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**  
**Label option for nonrefillable containers all sizes**  
 Nonrefillable container. Do not reuse or refill container. Triple or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by 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 recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by 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.

Active Ingredient: Glutaraldehyde	42.5%
Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	7.5%
Inert Ingredients:	50.0%
Total:	100.0%

## PRECAUTIONARY STATEMENTS

### DANGER

#### FIRST AID

<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>Call a poison control center or a doctor immediately for treatment advice.</li> <li>DO NOT INDUCE VOMITING.</li> <li>Do not give anything to drink.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>Wash immediately and continuously with flowing water for at least 30 minutes.</li> <li>Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.</li> <li>Call a poison control center or a doctor immediately for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or a doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or a doctor for further treatment advice.</li> </ul>

**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.

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

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**  
 E.P.A. Registration No. 464-702  
 E.P.A. Est. XXXX-XX-X



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

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 Made in U.S.A.

**NET CONTENTS: XXX gallons**  
**NET WEIGHT: XXX lb / XXX kg**  
**LOT NO:**

**AIR WASH SYSTEMS:**  
 This product UCARCIDE 42 point of uniform systems can be 24 hours. UCARCIDE 4 reverse osmosis INTERMITTENT Initial Dose: gallons of water Subsequent gallons of water Badly fouled or CONTINUOUS Initial Dose: gallons of water Subsequent Antimicrobial p Badly fouled or

**SERVICE WATER:**  
 UCARCIDE 4; be added to th

**HEAT TRANSFER:**  
 (Evaporative) UCARCIDE 4; be added to th; the treated wa

**INDUSTRIAL (Wastewater):**  
 UCARCIDE 4 digester. Add;

**PAPER MILL:**  
 UCARCIDE 4 chest, save-all Initial Dose: Kg of UCARC achieved. He; Subsequent UCARCIDE 4

**WATER BASIN:**  
 NOTE: For u Use from 0.1: as product (be

**WATER FLO:**  
 UCARCIDE 4 Initial Treatm (0.09 to 4.5 gr Subsequent UCARCIDE 4

**FRAC FLUID:**  
 Product not UCARCIDE 4 stimulations. 7 water is being Dose Range: depending on

**DRILLING:**  
 UCARCIDE 4 Initial Treatm barrels of fluid Maintenance UCARCIDE 4

**PACKER FLUID:**  
 UCARCIDE 4 50 to 600 ppr prepared fluid tube.

**OIL PRODUCT:**  
 Product not UCARCIDE 4 be conducted Adding a surf success of the desirable to d solvent shot pipeline inject

**GAS PRODUCT:**  
 UCARCIDE 4 should be con by adding a st for success of desirable to d solvent shot pipeline inject

# UCARCID<sup>TM</sup> 42 Antimicrobial

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USE IN CONTROLLING BACTERIA INCLUDING SLIME FORMING BACTERIA AND SULFATE-REDUCING BACTERIA AND FUNGI (YEAST AND MOLDS) AND ALGAE IN AIR WASHERS AND INDUSTRIAL-SCALE OSMOSIS MEMBRANES AND IN SERVICE WATER AND AUXILIARY SYSTEMS AND HEAT TRANSFER SYSTEMS AND IN WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND HOLDING TANK BOARD AND IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, OIL FIELD WATER SYSTEMS, OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS, AND GAS STORAGE SECTION WATER, HOLDING POND WATER, DISPOSAL-WELL WATER, WATER HOLDING TANKS, FUEL STORAGE TANKS AND RELATED REFINERY AND OIL FIELD CLOSED, INDUSTRIAL RECIRCULATION IN ANIMAL PRODUCTION FACILITIES AND FARM EQUIPMENT SUCH AS POULTRY & TURKEY HOUSES, SWINE HOUSING AND FALLOWING AREAS, BARN AND LARGE ANIMAL BUILDINGS, HATCHERS, SI INDUSTRIAL OR NON-FOOD CONTACT SURFACES SUCH AS EQUIPMENT FOR MIXING, PACKING, OR PACKAGING PRODUCTS, PRODUCT TRANSFER LINES, STORAGE TANKS, FLOORS AND WALLS AND MITIZING APPLICATIONS. FORMULATORS USING THIS PRODUCT ARE RESPONSIBLE FOR THE EPA REGISTRATION OF THEIR FORMULATING PRODUCTS.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner

Hyd	42.5%
10% C16	7.5%
Chloride	50.0%
	100.0%

## CAUTIONARY STATEMENTS DANGER

### FIRST AID

Control center or a doctor immediately for

VOMITING.  
Do not induce vomiting.

Keep patient cool and continuously with flowing water for at

least 15 minutes after the first 5 minutes and continue prompt medical consultation, preferably from an

Control center or a doctor immediately for

contaminated clothing.

Remove immediately with plenty of water for 15-20 minutes. Control center or a doctor for treatment advice.

Get to fresh air.

If breathing is difficult, call 911 or an ambulance, and then provide artificial respiration, preferably mouth-to-mouth if possible. Control center or a doctor for further treatment.

Eye contact may cause lung damage. Probable mucosal irritation. Rinse with water. Induce gastric lavage.

Keep the product container or label with you when you use the product, or going for treatment.

Do not use if the product is dangerous to life or property involving this product.

### ADDITIONAL PRECAUTIONARY STATEMENTS.

E.P.A. Registration No. 464-702

E.P.A. Est. XXXX-XX-X

### 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. UCARCID 42 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 UCARCID 42 Antimicrobial. Under these conditions, blowdown should be discontinued for up to 24 hours.

UCARCID 42 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 12.7 to 25.5 fluid ounces of UCARCID 42 Antimicrobial per 1,000 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 5.1 to 12.7 fluid ounces of UCARCID 42 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 12.7 to 25.5 fluid ounces of UCARCID 42 Antimicrobial per 1,000 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 2.6 to 12.7 fluid ounces of UCARCID 42 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

UCARCID 42 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) UCARCID 42 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) UCARCID 42 Antimicrobial should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.45 to 2.3 gallons (500 to 2,500 ppm UCARCID 42 Antimicrobial) per 1,000 gallons of wastewater or sludge.

### PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

UCARCID 42 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 Dose:** When the system is noticeably contaminated, add 0.5 to 3.0 lbs. of UCARCID 42 Antimicrobial per ton or 0.15 to 1.5 Kg of UCARCID 42 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 0.3 to 2.0 lb of UCARCID 42 Antimicrobial per ton or 0.15 to 1.0 kg of UCARCID 42 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.

Use from 0.1 to 0.6 lbs. of UCARCID 42 Antimicrobial per 1,000 lbs. of dry powder to produce a concentration of 100 to 600 ppm as product (based on slurry solids) in the mixed slurry.

### WATER FLOODS

UCARCID 42 Antimicrobial should be added to a water flood system at a point of uniform mixing.

**Initial Treatment:** When the system is noticeably contaminated, add 100 to 5,000 ppm UCARCID 42 Antimicrobial to the system (0.09 to 4.5 gallons UCARCID 42 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 UCARCID 42 Antimicrobial (0.02 to 4.5 gallons UCARCID 42 Antimicrobial per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

### FRAC FLUIDS

Product not registered for this use in the State of California.

UCARCID 42 Antimicrobial reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add UCARCID 42 Antimicrobial to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.

**Dose Range:** UCARCID 42 Antimicrobial should be added at a rate of 118 to 5,882 ppm (1.1 - 53.3 gals per 10,000 gallons) depending on the degree of bacterial fouling in the source water.

### DRILLING, COMPLETION, AND WORKOVER FLUIDS

UCARCID 42 Antimicrobial should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank. **Initial Treatment:** Add 50 to 1,000 ppm UCARCID 42 Antimicrobial (0.2 to 3.8 gallons UCARCID 42 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

**Maintenance Dosage:** Maintain a concentration of 50 to 1,000 ppm UCARCID 42 Antimicrobial by adding 0.2 to 3.8 gallons of UCARCID 42 Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

### PACKER FLUIDS

UCARCID 42 Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 to 600 ppm UCARCID 42 Antimicrobial (0.2 to 2.3 gallons UCARCID 42 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube.

### OIL PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

Product not registered for this use in the State of California.

UCARCID 42 Antimicrobial should be added to an oil production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of UCARCID 42 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 UCARCID 42 Antimicrobial with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 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 PIPELINE AND SYSTEMS

UCARCID 42 Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of UCARCID 42 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 UCARCID 42 Antimicrobial with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 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** Individual injection wells shot of 500 to 5000 ppm UCARCID before gas is injected (during individual drips should be to 2000 ppm UCARCID 42 Ant needed to maintain control.

**HYDROTASTING** Water used to hydrotest pipe UCARCID 42 Antimicrobial.

**PIPELINE PIGGING AND** Add UCARCID 42 Antimicrobial minimum and contained to produce a concentration of ( length of the pipeline and the

**SANITIZING NON-FOOD EQUIPMENT** Product not registered fo

**DO NOT USE THIS PROC** UCARCID 42 Antimicrob concrete, plastic, glazed tile

**Product Dilution:** To sanitize vegetative path Pseudomonas aeruginosa, Associated Coronavirus, B 1. Remove filth and soil of water. 2. Thoroughly saturate all s UCARCID 42 Antimicrob active ingredient. For applic gallon of water (2.2 to 5.4 r 3. Allow to stand for at least 4. Ventilate thoroughly bef 5. Fresh solution should be

**Farm Equipment And Ar** (Poultry & turkey grow-out: Before applying UCARCID 1. Remove all poultry and o water troughs. If not remov 2. Remove all litter and r UCARCID 42 Antimicrob 3. Using suitable comme Product Dilution, above). 4. Allow to stand for at least 5. Ventilate enclosed spar 6. Do not repopulate with

**Hatchers, Setters, and C** 1. General sanitizing of feathers, fluff, or other debris Product Dilution, above), depending on the organis 2. Treatment of air and cooling: Prepare a solution above). Fog or atomize th 3. Treatment of air and this product using approp

**Trays, Racks, Carts, Ch** Remove all filth and heavy (see Product Dilution, ab and air-dry. Allow to stan

**Trucks and other Vehic** Remove all filth and heavy appropriate amount (see at least 5 minutes, or for l

**Egg Sanitization** (for treating hatching egg Prepare a solution by mix 115°F (40° to 45°C). Plac

**SANITIZING NON-FOC** Product not registered Before applying UCAF cleaner. Dilute UCAR UCARCID 42 Antimicrob equipment, saturate all s time depending on the o

TS: XXX gallons  
XXX lb / XXX kg



**FATE-REDUCING BACTERIA AND FUNGI (YEAST AND MOLDS) AND ALGAE IN AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS, FAT TRANSFER SYSTEMS AND IN WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND HOLDING TANKS, AND IN PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS AND WATER DRAINAGE SYSTEMS, OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS, AND GAS STORAGE FIELDS AND EQUIPMENT; SUCH AS, STEAM-INJECTION WATER HOLDING TANKS, FUEL TANKS, FUEL STORAGE TANKS AND RELATED REFINERY AND OIL FIELD CLOSED, INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS AND AN INDUSTRIAL SANITIZER FOR USE IN TURKEY HOUSES, SWINE HOUSING AND FARROWING AREAS, BARN AND LARGE ANIMAL BUILDINGS, HATCHERS, SETTERS, AND CHICK PROCESSING FACILITIES, CAGES AND TRANSPORT VEHICLES, G, PACKING, OR PACKAGING PRODUCTS, PRODUCT TRANSFER LINES, STORAGE TANKS, FLOORS AND WALLS AND FOR USE BY MANUFACTURERS AND FORMULATORS IN FORMULATING PRODUCTS OR THE EPA REGISTRATION OF THEIR FORMULATING PRODUCTS.**

## DIRECTIONS FOR USE

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

### INDUSTRIAL SCRUBBING SYSTEMS/RECIRCULATING COOLING AND PROCESS WATER

Use in industrial air washers and air washer systems which have mist-eliminating components. UCARCIDE 42 should be added at the application rates described below to a water treatment system at a convenient as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled with UCARCIDE 42 Antimicrobial. Under these conditions, blowdown should be discontinued for up to 1 week.

UCARCIDE 42 can be used in industrial process water systems that contain ultra filtration units and non-medical (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

**USE METHOD**  
If system is noticeably fouled, apply 12.7 to 25.5 fluid ounces of UCARCIDE 42 Antimicrobial per 1,000 gallons of water. Repeat until control is achieved. If microbial control is evident, add 5.1 to 12.7 fluid ounces of UCARCIDE 42 Antimicrobial per 1,000 gallons of water weekly, or as needed to maintain control. System should be cleaned before treatment is begun.

**HOLD**  
If system is noticeably fouled, apply 12.7 to 25.5 fluid ounces of UCARCIDE 42 Antimicrobial per 1,000 gallons of water. Repeat until control is achieved. If microbial control is evident, add 5.1 to 12.7 fluid ounces of UCARCIDE 42 Antimicrobial per 1,000 gallons of water weekly, or as needed to maintain control. System should be cleaned before treatment is begun.

### AUXILIARY SYSTEMS

UCARCIDE 42 should be used at the same application rates, and in the same manner as described above. It should be used at the same application rates, and in the same manner as described above. It should be used at the same application rates, and in the same manner as described above. It should be used at the same application rates, and in the same manner as described above.

**AIR SYSTEMS**  
UCARCIDE 42 should be used at the same application rates, and in the same manner as described above. It should be used at the same application rates, and in the same manner as described above. It should be used at the same application rates, and in the same manner as described above. It should be used at the same application rates, and in the same manner as described above.

### WATER SYSTEMS

UCARCIDE 42 should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the sump area (500 to 2,500 ppm UCARCIDE 42 Antimicrobial) per 1,000 gallons of wastewater or sludge.

### PAPER MILL PROCESS WATER SYSTEMS

UCARCIDE 42 should be added to a paper making system at a point of uniform mixing such as the thick stock tank or white-water tank. If system is noticeably contaminated, add 0.5 to 3.0 lbs. of UCARCIDE 42 Antimicrobial per ton or 0.15 to 1.5 lbs. per metric ton of pulp or paper (dry basis) as a continuous or slug dose. Repeat until control is achieved. If microbial control is evident, add 0.3 to 2.0 lb of UCARCIDE 42 Antimicrobial per ton or 0.15 to 1.0 kg of per metric ton of pulp or paper (dry basis) as necessary to maintain control.

### SLURRIES AND FILLER SLURRIES FOR PAPER AND PAPERBOARD.

UCARCIDE 42 should be added to contact coatings only. UCARCIDE 42 Antimicrobial per 1,000 lbs. of dry powder to produce a concentration of 100 to 600 ppm (0.1 to 0.6%) in the mixed slurry.

UCARCIDE 42 should be added to a water flood system at a point of uniform mixing. If system is noticeably contaminated, add 100 to 5,000 ppm UCARCIDE 42 Antimicrobial to the system (100 to 5,000 ppm UCARCIDE 42 Antimicrobial per 1,000 gallons flood water). Repeat until control is achieved. If microbial control is evident, add 20 to 5,000 ppm UCARCIDE 42 Antimicrobial (0.02 to 4.5 gallons per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

### USE IN THE STATE OF CALIFORNIA

UCARCIDE 42 Antimicrobial should be added at a rate of 118 to 5,882 ppm (1.1 - 53.3 gals per 10,000 gallons) to reduce bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well completion. UCARCIDE 42 Antimicrobial to the frac water storage tanks or directly into the well head injection pipeline as the hole is drilled.

### WATER AND WORKOVER FLUIDS

UCARCIDE 42 should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank. UCARCIDE 42 Antimicrobial (0.2 to 3.8 gallons UCARCIDE 42 Antimicrobial per 100 gallons of fluid) depending on the severity of contamination. UCARCIDE 42 Antimicrobial by adding 0.2 to 3.8 gallons of UCARCIDE 42 Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

UCARCIDE 42 should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add UCARCIDE 42 Antimicrobial (0.2 to 2.3 gallons UCARCIDE 42 Antimicrobial per 100 barrels of fluid) to a freshly mixed packer fluid. Seal the treated packer fluid in the wall between the casing and production.

### TRANSMISSION PIPELINES AND SYSTEMS

UCARCIDE 42 should be added to an oil production or transmission line via direct injection. The application should be made to the maximum distribution of UCARCIDE 42 Antimicrobial throughout the entire internal pipeline surface. UCARCIDE 42 Antimicrobial should be added to the back end of the pipeline system. Criteria for application include: a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be diluted with an appropriate solvent immediately before use. The concentration in the pipeline should be 500 to 5,000 ppm based on the volume of water in the pipeline. UCARCIDE 42 Antimicrobial should be added weekly, or as needed to maintain control.

### TRANSMISSION PIPELINE AND SYSTEMS

UCARCIDE 42 should be added to a gas production or transmission pipeline via direct injection. The application should be made to the maximum distribution of UCARCIDE 42 Antimicrobial throughout the entire internal pipeline surface. UCARCIDE 42 Antimicrobial should be added to the back end of the pipeline system. Criteria for application include: a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be diluted with an appropriate solvent immediately before use. The concentration in the pipeline should be 500 to 5,000 ppm based on the volume of water in the pipeline. UCARCIDE 42 Antimicrobial should be added weekly, or as needed to maintain control.

### GAS STORAGE WELLS AND SYSTEMS

Individual injection wells should be treated with a sufficient quantity of UCARCIDE 42 Antimicrobial to produce a concentration of 500 to 5000 ppm UCARCIDE 42 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 yearly, or as needed to maintain control. Individual drips should be treated with a sufficient quantity of UCARCIDE 42 Antimicrobial to produce a concentration of 200 to 2000 ppm UCARCIDE 42 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 100 to 4,000 ppm UCARCIDE 42 Antimicrobial (0.09 to 3.6 gallons UCARCIDE 42 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 42 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 42 Antimicrobial should be added to produce a concentration of 0.1 to 1% (0.09 to 0.9 gallon UCARCIDE 42 Antimicrobial per 100 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

Product not registered for this use in the State of California.

### DO NOT USE THIS PRODUCT ON FOOD OR FEED

UCARCIDE 42 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 choleraesuis, 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 fumigatus):

1. Remove filth 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 0.14 to 0.56 fluid ounces of UCARCIDE 42 Antimicrobial per gallon of water (1.1 to 4.4 milliliters per liter) to produce a solution containing 0.06% to 0.24% active ingredient. For application against *Porcine circovirus*, mix 0.28 to 0.69 fluid ounces of UCARCIDE 42 Antimicrobial per gallon of water (2.2 to 5.4 milliliters per liter) to produce a solution containing 0.1 to 0.25% active glutaraldehyde ingredient.
3. Allow to stand for at least 5 minutes, or until thoroughly dried.
4. Ventilate thoroughly before reuse.
5. 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 42 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 42 Antimicrobial for at least ten minutes before reapplication.
3. Using suitable commercially available equipment, saturate all surfaces with diluted UCARCIDE 42 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 42 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 42 Antimicrobial with water. (See Product Dilution, above). Fog or atomize this solution into setters or hatchers, using appropriate application equipment.

3. 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 42 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.

### 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 UCARCIDE 42 Antimicrobial with water. Allow to air-dry. 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 0.3 fluid ounces of UCARCIDE 42 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

Product not registered for this use in the State of California.  
Before applying UCARCIDE 42 Antimicrobial, remove heavy filth and soil deposits from surfaces using a suitable cleaner. Dilute UCARCIDE 42 Antimicrobial to 0.06% to 0.24% active ingredient by mixing 0.14 to 0.56 fluid ounces of UCARCIDE 42 Antimicrobial per gallon of water (1.1 to 4.4 milliliters per liter). Using suitable commercially available equipment, saturate all surfaces with diluted UCARCIDE 42 Antimicrobial. Allow to set for at least five minutes, or for a longer time depending on the organisms being treated (See Product Dilution, above). Ventilate enclosed spaces.



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