464-704 3/26/2010 1 of 6

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

EPA United States Environmental Protection Agency **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™ 50 Antimicrobial
EPA Registration No. 464-704
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,

M Swindell

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

37 *Please read instructions on reverse before comple form.* Form Approved. B No. 2070-0060 Print Form 2 of 6

United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
464-704	MARSHALL SWINDELL	☐ None ☐ Restricted
4. Company/Product (Name) The Dow Chemical Co./ UCARCIDE 50 Antimicrobial	**PM#** 33	

5. Name and Address of Applicant *(Include ZIP Code)*

The Dow Chemical Company
1803 Building
Midland, MI 48674

☐ *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

☐ Amendment - Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification - Explain below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application.
☐ 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:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes* ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ 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	4. Size(s) Retail Container	5. Location of Label Directions
☐ Label ☐ Container		☐ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☐ Paper glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Rhonda Vance-Moeser	Sr. Regulatory Specialist	989-636-1884

Certification

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.

6. Date Application Received (Stamped)

2. Signature	3. Title
Rhonda Vance-Moeser	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. 464-704
UCARCIDE™ 50 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

Rhonda Vance-Moeser
Senior Regulatory Specialist
1790 Bldg. / Office 226
Midland, MI 48667
Phone: (989) 636-1884
e-mail: rgvmoeser@dow.com

Enclosures

obial

te-Reducing Bacteria, Fungi (Yeast and Molds) and Algae in Air Washers and Industrial Scrubbing Systems, Recirculating Cooling and Process Water Systems Including ems, Wastewater Systems Including Wastewater Sludge and Holding Tanks, Beet Sugar Mills and Beet Sugar Mill Process Water Systems, Paper Mills and Paper Mill Process nd Paperboard and Functional Fluids and Lubricants and Aqueous Metalworking Fluids and for use by Manufacturers as a Preservative in Industrial, Institutional and ilsions and in Oil Well Drilling, Oil Field Processing Applications, Oil Field Water Systems, Oil and Gas Production and Transmission Pipelines and Systems, and Gas s, Injection Water, Holding Pond Water, Disposal-Well Water, Water Holding Tanks, Fuel Storage Tanks and related Refinery and Oil Field Closed, Industrial Recirculating l Applications. Formulators using this product are responsible for providing data for the EPA Registration of their formulated product.

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

d only in industrial air washers and air washer systems which have mist-eliminating components.
robial should be added at the application rates described below to a water treatment system at a niform mixing such as the basin area.Addition may be made intermittently (SLUG DOSE) or id systems can be shock treated with UCARCIDE 50 Antimicrobial. Under these conditions, blowdown r up to 24 hours.
obial can be used in industrial process water systems that contain ultra filtration units and non-medical ranes (where approved for compatibility by the membrane manufacturer) and associated distribution

3 DOSE) METHOD
system is noticeably fouled, apply 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of UCARCIDE 50 gallons of water in the system, or 89 to 177 mL of UCARCIDE 50 Antimicrobial per 1,000 liters of water ntil control is achieved.
hen microbial control is evident, add 4.5 to 11.3 fluid ounces (40 to 100 ppm) of UCARCIDE 50 gallons of water in the system weekly, or 35 to 89 mL of UCARCIDE 50 Antimicrobial per 1,000 gallons of y, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

METHOD
system is noticeably fouled, apply 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of UCARCIDE 50 gallons of water in the system, or 89 to 177 mL of UCARCIDE 50 Antimicrobial per 1,000 liters of water

aintain this treatment level by starting a continuous feed of 2.3 to 11.3 fluid ounces (20 to 100 ppm 50 Antimicrobial per 1,000 gallons of water in the system per day or 17.7 to 88.6 mL of UCARCIDE 50 ers of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

) AUXILIARY SYSTEMS
robial should be used at the same application rates, and in the same manner as described above. It ystem at a point that will allow for uniform mixing throughout the system.

ITEMS
s, Dairy Sweetwater Systems, Hydrostatic Sterilizers And Retorts, And Pasteurizers And Warmers)
robial should be used at the same application rates, and in the same manner as described above. It ystem at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area ater will be circulated uniformly throughout the system.

VATER SYSTEMS
astewater sludge and wastewater holding tanks)
obial should be added to a wastewater system or sludge at a convenient point of uniform mixing such as 2.0 gallons (450 to 2,250 ppm product) of UCARCIDE 50 Antimicrobial per 1,000 gallons of wastewater ,994 mL of UCARCIDE 50 Antimicrobial per 1,000 liters of wastewater or sludge.

AND BEET SUGAR MILL PROCESS WATER SYSTEMS
obial should be added to the system at a point of uniform mixing such as the diffuser, transport water er feed water pump. Additions may be made intermittently (SLUG DOSE) or continuously

3 DOSE) METHOD
system is noticeably contaminated, add 5.4 to 13.6 fluid ounces (200 to 500 ppm product) of UCARCIDE r 177 to 422 mL of UCARCIDE 50 Antimicrobial per metric ton of sliced beets as a slug dose. Repeat

hen microbial control is evident, add 0.8 to 8.2 fluid ounces (30 to 300 ppm) of UCARCIDE 50 27 to 270 mL of UCARCIDE 50 Antimicrobial per metric ton of sliced beets in the system as a slug dose control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

METHOD
e system is noticeably contaminated, add 5.4 to 13.6 fluid ounces/minute (200 to 500 ppm product) of obial per ton or 177 to 442 mL/minute of UCARCIDE 50 Antimicrobial per metric ton of beets sliced per automatic pump of suitable construction.
hen microbial control is evident, add 0.8 to 8.2 fluid ounces/minute (30 to 300 ppm) of UCARCIDE 50 27 to 270 mL/minute of UCARCIDE 50 Antimicrobial per metric ton of beets sliced per minute in the to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

APER MILL PROCESS WATER SYSTEMS
obial should be added to the paper making system at a point of uniform mixing such as the beaters, broke , or white-water tank.
system is noticeable contaminated, add 0.5 to 3.0 lbs of UCARCIDE 50 Antimicrobial per ton of pulp or ug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial

hen microbial control is evident, add 0.3 to 2.0 lbs of UCARCIDE 50 Antimicrobial per ton of pulp or ug dose as necessary to maintain control.

ER SLURRIES FOR PAPER AND PAPERBOARD
on-food contact pigments and filler slurries)
of UCARCIDE 50 Antimicrobial per 1,000 lbs. of dry powder to produce a concentration from 100 to 600 n slurry solids) in the mixed slurry.

INGS FOR PAPER AND PAPERBOARD
ood contact coatings only.
of UCARCIDE 50 Antimicrobial per 1,000 lbs. of dry powder to produce a concentration from 100 to 600 n slurry solids) in the mixed slurry.

RKING FLUIDS
robial should be added to a metalworking fluid system at a point of uniform mixing such as the fluid ; may be made intermittently (SLUG DOSE) at intervals of one week or less.
e system is noticeably fouled apply 1.8 to 5.4 of UCARCIDE 50 Antimicrobial per 10,000 gallons of system.Repeat until control is achieved.
hen microbial control is evident, add 0.7 to 3.6 gallons of UCARCIDE 50 Antimicrobial per 10,000 fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned .

EYOR LUBRICANTS
everage, and Food Processing Systems)
of food in application of product.
s and conveyors to remove gross soil. Rinse well. Use an automatic feed system as recommended by to provide 1.1 to 6.8 fluid ounces (50 to 300 ppm active) of UCARCIDE 50 Antimicrobial per 100 gallons

GENERAL PRESERVATIVE USE
UCARCIDE 50 Antimicrobial is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-can processes and products, to control the growth of bacteria and fungi. For effective preservation, add UCARCIDE 50 Antimicrobial to the product formulation at a rate of 0.02% to 0.20% (200 to 2,000 ppm) based on the water content of the product (0.2 to 2.0 lbs UCARCIDE 50 Antimicrobial per 1,000 lbs water content). Mix uniformly.

PRESERVATIVE FOR CONCENTRATES
For use in concentrates where effective preservation is needed after dilution, add UCARCIDE 50 Antimicrobial to the product formulation at a rate such that the diluted end-use product will contain 0.02% to 0.20% UCARCIDE 50 Antimicrobial.
At no time during the preservation process should the level of UCARCIDE 50 Antimicrobial exceed 2%.

REVERSE OSMOSIS MEMBRANES
For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.2% to 2.0% UCARCIDE 50 Antimicrobial. UCARCIDE 50 Antimicrobial can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.2 % to 2.0% UCARCIDE 50 Antimicrobial to the tank in the circulating system. Maintain the concentration of UCARCIDE 50 Antimicrobial by periodic addition to counteract any system leakage.

CONCRETE ADMIXTURES
For effective preservation of concrete admixtures, add UCARCIDE 50 Antimicrobial to the product formulation at a rate of 2,000 to 8,000 ppm based on the weight of the admixture (2.0 to 8.0 lbs UCARCIDE 50 Antimicrobial per 1,000 lbs. concrete admixture). Mix uniformly.

WATER FLOODS
UCARCIDE 50 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 UCARCIDE 50 Antimicrobial to the system (0.09 to 4.4 gallons UCARCIDE 50 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 UCARCIDE 50 Antimicrobial (0.02 to 4.4 gallons UCARCIDE 50 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.
UCARCIDE 50 Antimicrobial reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add UCARCIDE 50 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: UCARCIDE 50 Antimicrobial should be added at a rate of 100 to 5000 ppm (0.9 – 44.3 gals per 10,000 gallons) depending on the degree of bacterial fouling in the source water.

DRILLING, COMPLETION, AND WORKOVER FLUIDS
UCARCIDE 50 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 UCARCIDE 50 Antimicrobial (0.2 to 3.7 gallons UCARCIDE 50 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 UCARCIDE 50 Antimicrobial by adding 0.2 to 3.7 gallons of UCARCIDE 50 Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS
UCARCIDE 50 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 UCARCIDE 50 Antimicrobial (0.2 to 2.2 gallons UCARCIDE 50 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

OIL PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS
Product not registered for this use in the State of California.
UCARCIDE 50 Antimicrobial should be added to an oil production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of UCARCIDE 50 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 UCARCIDE 50 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 PIPELINES AND SYSTEMS
UCARCIDE 50 Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of UCARCIDE 50 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 UCARCIDE 50 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 SYSTEMS
Individual injection wells should be treated with a sufficient quantity of UCARCIDE 50 Antimicrobial to produce a concentration of 500 to 5000 ppm UCARCIDE 50 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 50 Antimicrobial to produce a concentration of 200 to 2000 ppm UCARCIDE 50 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 50 Antimicrobial (0.09 to 3.5 gallons UCARCIDE 50 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 50 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 50 Antimicrobial should be added to produce a concentration of 0.1 to 1% (0.09 to 0.9 gallon UCARCIDE 50 Antimicrobial per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

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

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. May be fatal 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 50 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. UCARCIDE 50 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -6°F (-21°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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Label option for nonrefillable containers of all sizes

Nonrefillable container. Do not reuse or refill this 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 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.

UCARCIDE™ 50 Antimic

5 of 6

A highly effective Microbiocide for use in controlling Bacteria including Slime Forming Bacteria an those that contain Reverse Osmosis Membranes and Service Water and Auxiliary Systems, Heat Transf Water Systems, Pigments and Filler Slurries for Paper and Paperboard, Water Based Coatings for I Consumer Processes and Products and for use in Preserving Aqueous-Based Solutions, Slurries a Storage Fields and Equipment such as Steam-Injection Water Holding Tanks, Flood Water, Fracturin Water Handling Systems and for use by Manufacturers and Formulators in Formulating Products for C

Active Ingredient:

Glutaraldehyde	**50%**
Inert Ingredient(s):	**50%**
Total	**100%**

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

IF SWALLOWED:	• Call a poison control center or a doctor for further 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 further 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.

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. 464-704
E.P.A. Est. XXXXX-XXX

Produced for:

DOW®

The Dow Chemical Company
Midland, Michigan 48674 U.S.A.
(989)636-4400

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

AIR WASHER SYSTEMS
This product m
UCARCIDE 5
convenient p
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should be disc
UCARCIDE 5
reverse osmos
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Use from 0.1 to
ppm as product

WATER BASE
NOTE: For use
Use from 0.1 to
ppm as product

AQUEOUS ME
UCARCIDE 50
collection tank.
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before treatmen

WATER BASE
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Avoid contam
Thoroughly clear
your Dow repres
of diluted lubrica

microbial

1 of 6

ıg Bacteria and Sulfate-Reducing Bacteria, Fungi (Yeast and Molds) and Algae in Air Washers a
ıs, Heat Transfer Systems, Wastewater Systems Including Wastewater Sludge and Holding Tanks,
Coatings for Paper and Paperboard and Functional Fluids and Lubricants and Aqueous Metal
ns, Slurries and Emulsions and in Oil Well Drilling, Oil Field Processing Applications, Oil Fiel
ater, Fracturing Fluids, Injection Water, Holding Pond Water, Disposal Well Water, Water Holdir
Products for Oil Field Applications. Formulators using this product are responsible for providin

DIRECTI

It is a violation of Federal Law to use th

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

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components.
UCARCIDE 50 Antimicrobial should be added at the application rates described below to a water treatment system at convenient point of uniform mixing such as the basin area.Addition may be made intermittently (SLUG DOSE) c continuously. Badly fouled systems can be shock treated with UCARCIDE 50 Antimicrobial. Under these conditions, blowdown should be discontinued for up to 24 hours.
UCARCIDE 50 Antimicrobial can be used in industrial process water systems that contain ultra filtration units and non-medica reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distributio systems.

INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled, apply 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of UCARCIDE 5 Antimicrobial per 1,000 gallons of water in the system, or 89 to 177 mL of UCARCIDE 50 Antimicrobial per 1,000 liters of wat in the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 4.5 to 11.3 fluid ounces (40 to 100 ppm) of UCARCIDE 5 Antimicrobial per 1,000 gallons of water in the system weekly, or 35 to 89 mL of UCARCIDE 50 Antimicrobial per 1,000 gallons 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 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of UCARCIDE 5* Antimicrobial per 1,000 gallons of water in the system, or 89 to 177 mL of UCARCIDE 50 Antimicrobial per 1,000 liters of wat in the system.
Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2.3 to 11.3 fluid ounces (20 to 100 ppr product) of UCARCIDE 50 Antimicrobial per 1,000 gallons of water in the system per day or 17.7 to 88.6 mL of UCARCIDE 5 Antimicrobial per 1,000 liters of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

SERVICE WATER AND AUXILIARY SYSTEMS

UCARCIDE 50 Antimicrobial should be used at the same application rates, and in the same manner as described above. 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)
UCARCIDE 50 Antimicrobial should be used at the same application rates, and in the same manner as described above. should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting are from which the treated water will be circulated uniformly throughout the system.

INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater systems, wastewater sludge and wastewater holding tanks)
UCARCIDE 50 Antimicrobial should be added to a wastewater system or sludge at a convenient point of uniform mixing such a the digester. Add 0.4 to 2.0 gallons (450 to 2,250 ppm product) of UCARCIDE 50 Antimicrobial per 1,000 gallons of wastewater or sludge or 399 mL to 1,994 mL of UCARCIDE 50 Antimicrobial per 1,000 liters of wastewater or sludge.

BEET SUGAR MILLS AND BEET SUGAR MILL PROCESS WATER SYSTEMS

UCARCIDE 50 Antimicrobial should be added to the system at a point of uniform mixing such as the diffuser, transport wat pump, weir box, or diffuser feed water pump. Additions may be made intermittently (SLUG DOSE) or continuously

INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably contaminated, add 5.4 to 13.6 fluid ounces (200 to 500 ppm product) of UCARCID 50 Antimicrobial per ton or 177 to 422 mL of UCARCIDE 50 Antimicrobial per metric ton of sliced beets as a slug dose. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fluid ounces (30 to 300 ppm) of UCARCIDE 5 Antimicrobial per ton or 27 to 270 mL of UCARCIDE 50 Antimicrobial per metric ton of sliced beets in the system as a slug dos as necessary to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably contaminated, add 5.4 to 13.6 fluid ounces/minute (200 to 500 ppm product) UCARCIDE 50 Antimicrobial per ton or 177 to 442 mL/minute of UCARCIDE 50 Antimicrobial per metric ton of beets sliced pe minute in the system via automatic pump of suitable construction.
Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fluid ounces/minute (30 to 300 ppm) of UCARCIDE 5 Antimicrobial per ton or 27 to 270 mL/minute of UCARCIDE 50 Antimicrobial per metric ton of beets sliced per minute in th system, or as necessary to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

UCARCIDE 50 Antimicrobial should be added to the paper making system at a point of uniform mixing such as the beaters, brok chest pump, save-all tank, or white-water tank.
Initial Dose: *When the system is noticeable contaminated, add 0.5 to 3.0 lbs of UCARCIDE 50 Antimicrobial per ton of pulp* parer (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initia treatment.
Subsequent Dose: When microbial control is evident, add 0.3 to 2.0 lbs of UCARCIDE 50 Antimicrobial per ton of pulp 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 0.1 to 0.6 lbs. of UCARCIDE 50 Antimicrobial per 1,000 lbs. of dry powder to produce a concentration from 100 to 6(ppm as product (based on slurry solids) in the mixed slurry.

WATER BASED COATINGS FOR PAPER AND PAPERBOARD

NOTE: For use in non-food contact coatings only.
Use from 0.1 to 0.6 lbs. of UCARCIDE 50 Antimicrobial per 1,000 lbs. of dry powder to produce a concentration from 100 to 6(ppm as product (based on slurry solids) in the mixed slurry.

AQUEOUS METALWORKING FLUIDS

UCARCIDE 50 Antimicrobial should be added to a metalworking fluid system at a point of uniform mixing such as the flu 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 1.8 to 5.4 of UCARCIDE 50 Antimicrobial per 10,000 gallons metalworking fluid to the system.Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 0.7 to 3.6 gallons of UCARCIDE 50 Antimicrobial per 10,0(gallons of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

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 1.1 to 6.8 fluid ounces (50 to 300 ppm active) of UCARCIDE 50 Antimicrobial per 100 gallo of diluted lubricant.