



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

**November 15, 2006**

Ms. Rhonda Vance-Moeser,  
Senior Regulatory Specialist  
Dow Chemical Company  
Midland, Michigan 48674 USA

Subject: Notification Application per PR Notice 98-10  
**ANTIMICROBIAL 7287**  
EPA Reg. No. 464-426  
Application Date: November 7, 2006  
Receipt Date: November 8, 2006

Dear Ms. Vance-Moeser:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c) 9.

**Proposed Notification:**

- Notification to add the qualifier "Produced For" to registrant name and address on the product label when produced by a contract manufacturer.
- Notification to revise the trademark language on the product label.

**General Comment:**

- Based on a review of the material submitted, the following comment applies:
- This notification is acceptable and a copy has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, please contact me at (703) 308-6422, or by email at [heyward.adam@epa.gov](mailto:heyward.adam@epa.gov) or Killian Swift at (703) 308-6346 or by email at [swift.killian@epa.gov](mailto:swift.killian@epa.gov)

Sincerely,

  
Killian Swift (for)  
Adam Heyward  
Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

286

Print Form

Please read instructions on reverse before completing form.

Form Approved OMB No. 2070-0060, Approval expires 2-28-



United States Environmental Protection Agency Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 464-426	2. EPA Product Manager Adam Heyward	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dow Chemical / Antimicrobial 7287	PM# 34	
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

Amendment - Explain below.  Final printed labels in response to Agency letter dated \_\_\_\_\_  
 Resubmission in response to Agency letter dated \_\_\_\_\_  "Me Too" Application.  
 Notification - Explain below.  Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to 1) add "Produced For" above company name and address on label when product produced by contract manufacturer 2) Update trademark statement on label  
Mandatory notification statement is contained in cover letter accompanying this notification submission.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input checked="" 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  
 Label  Container

4. Size(s) Retail Container  
330 & 55 gal/8oz

5. Location of Label Directions  
 On Label  On Labeling accompanying product

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper glued  Other \_\_\_\_\_  
 Stenciled

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 Senior Regulatory Specialist	Telephone No. (Include Area Code) 989-636-1884
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**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.

2. Signature  
*Rhonda Vance-Moeser*

3. Title  
Senior Regulatory Specialist

4. Typed Name  
Rhonda Vance-Moeser

5. Date  
11/7/06

6. Date Application Received  
(Stamped)



3 8 6

Larkin Laboratory  
November 7, 2006

The Dow Chemical Company  
Midland, Michigan 48674  
USA

Overnight Mail

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

**RE: NOTIFICATION – EPA REG. NO. 464 – 426  
ANTIMICROBIAL 7287**

The Dow Chemical Company (Dow) hereby submits a Notification application to:  
1) add the qualifier “Produced For” to the registrant name and address on the product label when produced by a contract manufacturer  
2) revise the trademark language on the product label  
In order for the application to be processed the required Notification statement is included.

**“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 for Pesticide Registration, Form 8570-1
- 2) Required notification statement above
- 3) Two copies of product label with one indicating changes highlighted in yellow.

Please contact me if you have any questions or need additional information.

Sincerely,

Rhonda Vance-Moeser  
Senior Regulatory Specialist  
Phone: (989) 636-1884  
e-mail: [rgvmoeser@dow.com](mailto:rgvmoeser@dow.com)

Enclosures

4 8 6

# Antimicrobial 7287

To control coliform and other bacteria in publicly-owned treatment works; controls bacteria, fungi and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria, fungi, and algae in industrial recirculating water cooling towers, once-through fresh and sea water industrial cooling water systems, and reverse osmosis systems; controls slime-forming bacteria and fungi in air-washer systems.

### FOR INDUSTRIAL USE ONLY

Active Ingredient(s):  
2,2-Dibromo-3-nitrilopropionamide .....20%  
Inert Ingredient(s): .....80%  
Total 100%

E.P.A. Registration No. 464-426  
E.P.A. Est. . . . .

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

#### DANGER

**CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE OR SKIN BURNS · DO NOT GET IN EYES, ON SKIN OR ON CLOTHING · MAY CAUSE LOSS OF VISIONS · FATAL IF ABSORBED THROUGH SKIN · HARMFUL IF SWALLOWED OR INHALED · AVOID BREATHING VAPOR · WEAR GOGGLES OR FACE SHIELD (SAFETY GLASSES) · WEAR PROTECTIVE CLOTHING (LONG-SLEEVE SHIRT AND LONG PANTS, SOCKS PLUS SHOES AND CHEMICAL RESISTANT GLOVES SUCH AS WATERPROOF GLOVES) · WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, OR USING TOBACCO · REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.**

Produced for:



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

® TM Trademark of The Dow Chemical Company ("Dow")  
or an affiliated company of Dow  
Made in U.S.A.

FIRST AID:	
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 30 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<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 doctor for treatment advice.</li> </ul>
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> </ul>
HOT LINE NUMBER	
<b>IN CASE OF AN EMERGENCY</b> endangering life or property involving this product, call 1-800-424-9293. Have the product container or label with you when calling a poison control center or doctor.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. **NOTE:** 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.

### PESTICIDE STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.  
**Storage:** To maintain product quality, store at temperatures below 60°C. Keep container tightly closed when not in use.  
**Pesticide Disposal:** Pesticide wastes are acutely hazardous. 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:** Do not reuse empty container. Triple rinse (or equivalent). 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.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this pesticide in a manner inconsistent with its labeling.  
**NOTE:** ADD Antimicrobial 7287 to the formulation of Antimicrobial 7287. DO NOT MIX IT WITH OTHER ADDITIVES. MANY ADDITIVE FORMULATIONS ARE AVAILABLE.

### PAPER MILLS

For the control of bacterial, fungal, and yeast growth in paper mills, add Antimicrobial 7287 at the rate of 1.0-1.4 lbs/ton of paper. Addition may be continuous or intermittent. It should be added to insure uniform distribution of Antimicrobial 7287 in the paper. For white-water tanks, HEAVILY FOULED SYSTEMS should be treated with Antimicrobial 7287/ton of paper (dry basis). MODERATELY FOULED SYSTEMS should be treated with Antimicrobial 7287/ton of paper (dry basis). Addition rates can then be reduced to 0.5-1.0 lbs/ton of paper on a continuous or intermittent basis, as needed. For SLIGHTLY FOULED SYSTEMS should be treated with Antimicrobial 7287/ton of paper (dry basis) on an intermittent basis to maintain control.

### METALWORKING FLUIDS

This product is effective in metalworking fluids at ratios of 1:100-1:4. For controlling (or inhibiting) the growth of bacteria in metalworking fluids containing collection tank. Additions should be made as needed.



### NOTICE

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



**INITIAL or SLUG DOSE:** When the system is just noticeably fouled, add 0.25 gal Antimicrobial 7287/1,000 gal of metalworking fluid to the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.1-0.2 gal Antimicrobial 7287/1,000 gal of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

**ENHANCED OIL RECOVERY SYSTEMS**

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm Antimicrobial 7287 (0.1-6.4 gal Antimicrobial 7287 per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

**CONTINUOUS FEED METHOD**

When the system is noticeably fouled, add 10-80 ppm Antimicrobial 7287 (0.8-6.4 gal Antimicrobial 7287 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm Antimicrobial 7287 (0.1-1.2 gal Antimicrobial 7287 per 2400 barrels of water) continuously or as needed to maintain control.

**INTERMITTENT or SLUG METHOD**

When the system is noticeably fouled, or to maintain control of the system, add 10-80 ppm Antimicrobial 7287 (0.8-6.4 gal Antimicrobial 7287 per 2400 barrels of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending on the severity of contamination.

Addition of Antimicrobial 7287 may be made at the free water knockouts, before or after the injection pumps and injection well headers.

**NOTE: FOR CONTROL OF BACTERIA, YEAST, AND FUNGI IN AQUEOUS SOLUTIONS OF BIOPOLYMER USED IN FLOODING OPERATIONS,** add 15-80 ppm Antimicrobial 7287 (1.2-6.4 gal Antimicrobial 7287 per 2400 barrels of water). Additions of Antimicrobial 7287 should be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS**

Add Antimicrobial 7287 to the basin (or any other point of uniform mixing). Addition should be made with a metering pump; it may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the retention time in the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown should be discontinued for 24-48 hours.

**FOR CONTROL OF BACTERIA**

Add 0.00095-0.0095 gal Antimicrobial 7287/1,000 gal of water in the system, depending on the severity of contamination.

**INTERMITTENT or SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled, add 0.0048-0.0095 gal Antimicrobial 7287/1,000 gal of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.0024-0.0095 gal Antimicrobial 7287/1,000 gal of water in the system every 4 days, 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, add 0.0048-0.0095 gal Antimicrobial 7287/1,000 gal of water to the system.

**SUBSEQUENT DOSE:** Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal Antimicrobial 7287/1,000 gal of water in the system per day.

**BADLY FOULED SYSTEMS** must be cleaned before treatment is begun.

**FOR CONTROL OF FUNGI AND ALGAE**

Add 0.029-0.095 gal Antimicrobial 7287/1,000 gal of water in the system depending on the severity of contamination.

**INTERMITTENT or SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled, add 0.048-0.095 gal Antimicrobial 7287/1,000 gal of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.029-0.095 gal Antimicrobial 7287/1,000 gal of water in the system daily, 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, add 0.048-0.095 gal Antimicrobial 7287/1,000 gal of water to the system.

**SUBSEQUENT DOSE:** Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal Antimicrobial 7287/1,000 gal of water in the system per day.

**BADLY FOULED SYSTEMS** must be cleaned before treatment is begun.

**ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS**

**Product is not registered for this use in California.**

For controlling microbiological growth in once-through and closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add Antimicrobial 7287 to the system inlet water or before any other contaminated area in the system. Intermittent addition should be made with a metering pump at a level dependent on the severity of the contamination in the system.

**INITIAL DOSE:** When the system is noticeably fouled, add 6-12 ppm Antimicrobial 7287 based on the flow rate through the system. Additions should be for durations of at least 15 minutes, but with additions not being made for more than a total of 4 hours per day.

**SUBSEQUENT DOSE:** When microbial control is evident, add 3-12 ppm Antimicrobial 7287 intermittently to maintain control. Addition intervals may vary but total time of additions should not exceed 4 hours per day.

**BADLY FOULED SYSTEMS** must be cleaned before treatment is begun.

**REVERSE OSMOSIS SYSTEMS**

ANTIMICROBIAL 7287 may be used to control bacteria and reduce biofouling in industrial membrane systems (reverse osmosis, ultrafiltration, microfiltration). Acceptable applications include reverse osmosis for the production of boiler makeup water, rinsing of electric components, and industrial wastewater treatment.

ANTIMICROBIAL 7287 may be fed continuously to the membrane system feed water at a rate of 10-100 ppm (1.3-13.0 fl oz/1,000 gallons or 0.4 to 4.0 ml/min per 10 ppm of feed water) ANTIMICROBIAL 7287. For off-line system disinfection, add 50-170 ppm (6.5-22.0 fl oz/1,000 gallons) ANTIMICROBIAL 7287 to the off-line cleaning feed tank and re-circulate for 30 minutes to 3 hours. Frequency of addition should be every 5 days or as needed.

**Note:** For industrial systems in which ANTIMICROBIAL 7287 residuals cannot be tolerated, ANTIMICROBIAL 7287 must be slug fed. During and for 30 minutes to 1 hour following chemical addition, permeated and concentrate streams must be diverted to waste.

**AIR-WASHER SYSTEMS**

Add 0.0015-0.095 gal ANTIMICROBIAL 7287/1,000 gal of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer systems.

**INTERMITTENT or SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled, add 0.003-0.095 gal ANTIMICROBIAL 7287/1,000 gal of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.0015-0.047 gal ANTIMICROBIAL 7287/1,000 gal of water in the system every 2 days 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, add 0.003-0.095 gal ANTIMICROBIAL 7287/1,000 gal of water in the system.

**SUBSEQUENT DOSE:** Maintain this level by pumping a continuous feed of 0.0015-0.047 gal ANTIMICROBIAL 7287/1,000 gal of water in the system per day.

**BADLY FOULED SYSTEMS** must be cleaned before treatment is begun.

**NOTE:** For use only in industrial air-washer systems that maintain effective mist eliminating components.

**HYDROTESTING**

**Product is not registered for this use in California.**

**FOR CONTROL OF BACTERIA**

Water used to hydrotest pipelines or vessels should contain 100 to 1000 ppm of ANTIMICROBIAL 7287 (0.1 to 1 gallon ANTIMICROBIAL 7287 per 1000 gallons water) depending on water quality and length of time the equipment will remain idle.

**PUBLICLY-OWNED TREATMENT WORKS**

**TO CONTROL COLIFORM AND OTHER BACTERIA**

Add Antimicrobial 7287 at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity of contamination in the system. Addition should be CONTINUOUS and should be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add Antimicrobial 7287 to the system in a location where contact time will be 30 minutes or greater before reaching the outfall.

**TO USE AS A CO-TREATMENT WITH CHLORINE**

Add 0.4-1.5 ppm Antimicrobial 7287 by weight of water treated. Chlorination should result in a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level). Addition should be CONTINUOUS and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. Antimicrobial 7287 should be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.

**Notice:** 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 (except uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration) 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.**

minutes.  
When continue rinsing eye.

advice.

Control center or doctor.

Call collect (989)636-4400.

or going for treatment.

Product in a manner inconsistent with the

SEPARATELY TO THE SYSTEM. DO NOT USE, IN ORDER TO AVOID 7287 DUE TO THE HIGH pH OF

It grows in pulp, paper, and paperboard .15-0.50 lb/ton of pulp or paper (dry basis). Depending upon the type of system and the size with a metering pump at a location that will treat 287 in the mass of fiber and water, such as chests, furnish chests, save-alls, and

Washed out, then treated with 0.15-0.35 lb as necessary for control.

It is treated continuously with 0.35-0.50 lb until the slime accumulation is controlled. 1.35 lb Antimicrobial 7287/ton of paper on a per machine may be advisable.

Dislodged slime may be treated continuously with 0.15-0.35 lb until the slime is controlled, then added on an

**MAINTAINING WATER**

Concentrates which have been diluted in

bacteria, fungi, and yeasts that may occur, add Antimicrobial 7287 to the fluid in the tank with a metering pump.