



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

August 20, 2003

Ms. Rhonda Vance-Moeser
Sr. Regulatory Specialist
The Dow Chemical Company
1803 Building
Midland, MI 48674

Subject: Amendment per PR Notice 2001-1
XD-8259 Antimicrobial
EPA Registration No. 464-500
Application dated May 22, 2003

Dear Ms. Vance-Moeser:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with comments:

Label Comment

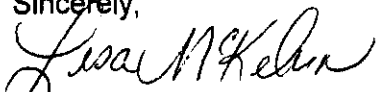
- Revise the first sentence of the "If In Eyes" section of the first aid statement to read, "Hold eye open and rinse slowly and gently with water for 15-20 minutes." (See Agency letter April 3, 2003)

General Comment

Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling. A stamped copy is enclosed for your records.

Should you have any questions or comments concerning this letter, please contact me at (703) 308-6422, or Lisa McKelvin at (703) 308-7496.

Sincerely,


for Adam Heyward
Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510C)

Enclosure

XD-8259 Antimicrobial

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 and in once-through fresh and sea water industrial cooling water systems; controls slime-forming bacteria and fungi in air-washers systems.

FOR INDUSTRIAL USE ONLY

Active Ingredient(s)	10%
2,2-Dibromo-3-nitropropanamide	10%
Inert Ingredient(s)	90%
Total	100%

E.P.A. Registration No. 464-500
E.P.A. Est. No 464-MI-1

KEEP OUT OF REACH OF CHILDREN DANGER

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER • Causes severe eye damage or skin burns. Harmful if swallowed or absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist. Wear goggles, safety glasses or face shield when using. Wash hands before eating, drinking, chewing gum, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

The product is toxic to fish. 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. **Pesticide 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 if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Reusable Portable Containers (Totes): Do NOT rinse containers. Do not put any other material(s) in containers. Seal all openings with proper fittings and clean outside of container. Then return container to The Dow Chemical Company.



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

* Trademark of THE DOW CHEMICAL COMPANY

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989) 636-4400. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

DIRECTIONS FOR USE

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

NOTE: ADD XD-8259 ANTIMICROBIAL SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES. IN ORDER TO AVOID DECOMPOSITION OF XD-8259 ANTIMICROBIAL DUE TO THE HIGH PH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add XD-8259 at the rate of 0.30-1.0 lb/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of XD-8259 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 0.30-0.70 lb XD-8259/ton paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 0.70-1.0 lb XD-8259/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.30-0.70 lb XD-8259/ton of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable.

Slightly fouled systems should be treated continuously with 0.30-0.70 lb XD-8259/ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.



NOTICE

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

ACCEPTED
with COMMENTS
EPA Letter Dated:

AUG 20 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-500

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add XD-8259 ANTIMICROBIAL 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 hr.

FOR CONTROL OF BACTERIA

Add 0.002-0.02 gal XD-8259/1,000 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 0.01-0.02 gal XD-8259/1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.005-0.02 gal XD-8259/1,000 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 0.01-0.02 gal XD-8259/1,000 gal of water to system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.002-0.01 gal XD-8259/1,000 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 0.06-0.20 gal XD-8259/1,000 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 0.10-0.20 gal XD-8259/1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.06-0.20 gal XD-8259/1,000 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 0.10-0.20 gal XD-8259/1,000 gal of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.06-0.20 gal XD-8259/1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING SYSTEMS

For controlling bacteria, fungi, and algae in once-through closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add XD-8259 to the system water or before any other contaminated area in the system. Addition should be made with a metering pump; it may be continuous or intermittent depending on the severity of contamination when treatment is begun, and the retention time in the system.

FOR CONTROL OF BACTERIA

Add 2-24 ppm XD-8259 based on the flow rate through system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 2-24 ppm XD-8259. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 2-24 ppm XD-8259 intermittently 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 2-24 ppm XD-8259 continuously to the system.

Subsequent Dose: When microbial control is evident, add a continuous feed of 2-12 ppm XD-8259 to the system.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 72-236 ppm XD-8259 based on the flow rate through system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 72-236 ppm XD-8259 to the system. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 72-236 ppm XD-8259 to the system or as needed to maintain control. The minimum treatment interval should be 15 minutes.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 72-236 ppm XD-8259 continuously to the system.

Subsequent Dose: When microbial control is evident, add a continuous feed of 72-236 ppm XD-8259 to the system.

Badly fouled systems must be cleaned before treatment is begun.

METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrations which have been diluted in water at ratios of 1:100-1:1000.

For controlling (or inhibiting) the growth of bacteria and fungi that may deteriorate metalworking fluids, containing water, add XD-8259 to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is just noticeably fouled, add 0.5 gal XD-8259/1,000 gal of metalworking fluid in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.4 gal XD-8259/1,000 gal of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as needed.

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