	EPA REGISTRATION NO.	DATE OF ISSUANCE
OFFICE OF PESTICIDES PROGRAMS	67869-21	MAR 26 1996
REGISTRATION DIVISION (75-767) WASHINGTON DC 20460	TERM OF ISSUANCE	[1 1 1 1
	Conditional	
NOTICE OF PESTICIDE: [] REGISTRATION	NAME OF PESTICIDE PRODUCT	
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	Antimicrobial N-5	
ME AND ADDRESS OF REGISTRANT (Include ZIP code)	······································	
F	· – Ţ	
Verichem		
1314 Fourth Avenue		
Coraopolis, PA 15108		
00140p0110, 1. 10100	•	
	7.	
OTE: Changes in labeling formula differing in substance	from that accepted in connection s or to use of the label in commerce	with this registration must be
roduct always refer to the above U.S. EPA registration nu	mber.	the start of the start of the
on the basis of information furnished by the registrant, the	above named pesticide is hereby	Registered/Reregistered under
he Federal Insecticide, Fungicide, and Rodenticide Act.		
s copy of the labeling accepted in connection with this Re	egistration/Reregistration is retur	ned herewith.
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c. The net contents should be declared on the label or on the container.

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3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Ruth Douglas Product Manager (32) Antimicrobial Program Branch Registration Division (7505C)

Specimen Label

Antimicrobial N-5

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-washer systems.

FOR INDUSTRIAL USE ONLY

Active Ingredients:

2,2-Dibromo-3-nitrilopropionamide......5% Inert Ingredients:......95% E.P.A. Registration No. 672 69 E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animais CAUSES SEVERE BURNS OF EYES • CAUSES SKIN IRRITATION • HARMFUL IF SWALLOWED

Do Not Get In Eyes, On Skin, Or On Clothing • Wear Chemical Worker's Goggles When Handling • Wash Thoroughly After Handling FIRST AID:

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of skin contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists.



If swallowed, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This 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 contair. ng 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.

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 412-2009-1200 cr 412-521-6393 (After hours)

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.



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NOTICE

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing and a state of the state of the

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 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 MERCHANT/BILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

DIRECTIONS FOR USE

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

NOTE: ADD ANTIMICROBIAL NESSPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES. IN ORDER TO AVOID DECOMPOSITION OF ANTIMICROBIAL N.ST DUE TO THE HIGH PH OF MANY ADDITIVE FGT "ILATIOUS.

PAPER MILLS

For the control of bacterial, fungal, and yeast growths in pulp, paper, and caperboard mills, add ANTIMICROBIAL N-5 at the rate of 0.06-0.21 gal/ton of pulp or paper (div 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 ANTIMICROBIAL N-5in the mass of fiber and water, such as the beaters, jordan inlet or discharge broke chasts (umish constr. and water). discharge, broke chests, furnish unests, save-alls, and white-water tanks.

HEAVILY FOULED SYSTEMS should be boiled out, then treated with 0.06-0.15 gal ANTIMICROBIAL $_{N=0}^{-1}$ ton of paper (dry basis), as necessary for control.

MODERATELY FOULED SYSTEMS should be related continuously with 0.15-0.21 gal ANTIMICROBIAL point of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.06-0.15 gal ANTIMICROBIAL N-5 from of paper on a continuous or intermittent basis, as meded 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 0.06-0.15 gal ANTIMICROBIAL N-5 ton of paper (dry basis) until slime is controlled, then added on an intermittent basis to maintain control.

METALWORKIN LUID'S COL This product is effective interativorking the INING WATER

uncentrates which

have been diluted in water at ratios (11:10)-1:4. For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add ANTIMICROBIAL $\underline{N},\underline{\gamma}$ to the fluid in the collection tank. Additions should be made with a metering punip.

INITAL or SLUG DOSE. When the system is just noticeably fouled, add 1.1 gal ANTIMICROBIAL N-5 1,000 gal of metalworking fluid to the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.44-0.88 gal ANTIMICROBIAL N-5 1,000 gal of microbiavorking fluid per day, or as needed to maintain control. Additions can be micdo 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 4 320 ppm ANTIMICROBIAL N=5 (0.4-28 € gal ANTIMICROBIAL N=5 per 2400 barrels of water) depending on the severity of the contamination Additions should be made with a metering pump either continuously or intermittently

CONTINUOUS FEED METHOD

CONTINUOUS FEED METHOD When the system is noticeably fouled, add 40-320 ppm ANTIMICROBIAL N=5 (3.6-28.6 gal ANTIMICROBIAL N=5 per 2400 barrels of water) continuously, until the desired degree of control is achieved. Subsequently, treat with 4-60 ppm ANTIMICROBIAL (0.4-5.4 gal ANTIMICROBIAL N=5 per 2400 barrels of water) continuously or as needed to maintain control.

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INTERMITTENT or SLUG METHOD

Witchmittent of SLUG METHOD When the system is noticeably fouled, or to maintain control of the system, add 40-320 ppm ANTIMICROBIALN-5 (3.6-28.6 gat ANTIMICROBIAL N-5 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 seventy of contamination.

Addition of ANTIMICROBIAL N-5 may be made at the free wate: 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 60-320 ppm ANTIMICROBIALN-5 (5.4-28.6 gal ANTIMICROBIALN-5 per 2400 barrels of water). Additions of ANTIMICROBIALN-5, should be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss hi viscosity. prevent loss of viscosity.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add ANTIMICROBIAL N-5 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 0.0038-0.038 gal ANTIMICROBIAL N-5 /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 0.019-0.038 gal ANTIMICROBIAL N:5 /1,000 gal of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.0095-0.038 gat ANTIMICROBIAL N-5 /1.000 gat 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 FEEL/ METHOD INITIAL DOSE: When the system is noticeably fouled, add 0.019-0.038 gat ANTIMICROBIAL/N 5/1,000 gal of water to the system.

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0038-0.019 per ANTIMICROBIAL N-5 /1,000 gal of water in the system per day.

BADLY FOULED SYSTEMS must be cleaned before treatment is beaun.

FOR CONTROL OF FUNGLAND ALGAE Add 0.116-0.380 gal ANTIMICROBIAL Nr 51,000 gal of water in the system depending on the severity of the contamination.

INTERMITTENT or S. UG METHOD INITIAL DOSE: Wien the system is noticeably fouled, add 0.192-0.380 gal ANTIMICROBIAL /\-5_/1,000 gal of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.116-0.380 gal ANTIMICROBIAL N=r; .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 0.192-0.380 gal ANTIMICROBIAL/V-5° 1,000 gal of water to the system.

SUBSEQUENT DOSE: Maintain this freatment level by pumping a continuous feed of 0.116-0.380 gal ANTIMICROBIAL N 5 $^{\prime}$ 1.000 gal of water in the system per day

BADLY FOULED SYSTEMS must be cleaned before treatment is begun

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ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

For controlling bacteria, fungi, and algae in once-through and closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add ANTIMICROBIAL N-5 to the system inlet 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 the contamination when treatment is begun, and the retention time in the system.

FOR CONTROL OF BACTERIA Add 4-48 ppm ANTIMICROBIAL N-5" based on the flow rate through the system, depending on the seventy of contamination.

INTERMITTENT METHOD INITIAL DOSE: When the system is noticeably fouled, add 24-48 ppr ANTIMICROBIAL N-5 Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 12-48 ppm ANTIMICROBIAL (1-5) intermittently as needed to maintain control.

BADLY FOULED SYSTEMS must be cleaned before treatment is beaun.

CONTINUOUS FEED METHOD

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INITIAL DOSE: When the system is noticeably fouled, add 24-48 pp: ANTIMICROBIAL N=5 continuously to the system.

SUBSEQUENT DOSE: When microbial control is evident, pump a continuous feed of 4-24 ppm ANTIMICROBIAL N-5 to the system. BADLY FOULED SYSTEMS must be cleaned before treatment is begun

FOR CONTROL OF FUNGI AND ALGAE Add 144-472 ppm ANTIMICROBIAL N-5 based on the flow rate through the system, depending on the seventy of contamination.

INTERMITTENT METHOD INITIAL DOSE: When the system is noticeably fouled, add 240-472 ppm ANTIMICROBIAL N-5 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add 144-472 ppm ANTIMICROBIAL N-5 to the system daily 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 240-472 ppm ANTIMICROBIAL N-5 to the system.

SUBSEQUENT DOSE: When microbial control is evident, pump a continuous feed of 144-472 ppm ANTIMICROBIAL N-5 to the system BADLY FOULED SYSTEMS must be cleaned before treatment is beaun.

AIR-WASHER SYSTEMS

Add 0.0078-0.250 gal ANTIMICROBIALN(-5 '1.000 gal of water in the system, depending upon the severity of contamination to control silme-forming bacteria and fungi in industrial air-washing systems. INTERMITTENT or SLUG METHOD INITIAL DOSE: When the system is noticeably fouled, add 0.156-0.250 gal ANTIMICROBIAL N-5 '1.000 gal of water in the custom Bacast until exchange a chineded.

system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add . 0.0078-0.125 gal ANTIMICROBIAL N-5/1,000 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 0.156-0.250 gal ANTIMICROBIAL N-5/1,000 gal of water in the ovstem

CUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0078-0.125 gal ANTIMICROBIAL N-5/1,000 gal of water in the system per day.

BADLY FOULED SYSTEMS must be cleaned before treatment is beaun

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

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