PM 32 67869-22 105

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

NOTICE OF PESTICIDE: [ ] REGISTRATION [ ] REREGISTRATION

(Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended)

EPA REGISTRATION NO.: 67869-22

DATE OF ISSUANCE: MAR 26 1996

TERM OF ISSUANCE: Conditional

NAME OF PESTICIDE PRODUCT: Antimicrobial N-20

NAME AND ADDRESS OF REGISTRANT *(Include ZIP code)*

Verichem
1314 Fourth Avenue
Coraopolis, PA 15108

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar product to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration No. 67879-22".

b. Revise the Environmental Hazards to read as follows:

"This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA".

[ ]

SIGNATURE OF APPROVING OFFICIAL

DATE

EPA Form 8570-6 (Rev. 5-74)

c. The net contents should be declared on the label or on the container.

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-20

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 Ingredient(s):
2,2-Dibromo-3-nitrilopropionamide 20%
Inert Ingredient(s): 80%
E.P.A. Registration No.
E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUSES SEVERE BURNS OF EYES • EYE CONTACT MAY CAUSE LOSS OF VISION • MAY BURN THE SKIN • MAY BE HARMFUL OR FATAL IF SWALLOWED

Do Not Get In Eyes, On Skin, Or On Clothing • Chemical Worker's Goggles Must Be Worn 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 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.

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 412-269-1260 or 412-521-6393 afterhours.

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.

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

Vermont
[illegible]
[illegible] PA 15108

ACCEPTED
with COMMENTS
In EPA Letter Dated:

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

61564-20

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 MERCHANTABILITY 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 N-20 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF ANTIMICROBIAL N-20 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 ANTIMICROBIAL N-20 at the rate of 0.15-0.50 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 ANTIMICROBIAL 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 0.15-0.35 lb ANTIMICROBIAL N-20/ton of paper (dry basis), as necessary for control.

MODERATELY FOULED SYSTEMS should be treated continuously with 0.35-0.50 lb ANTIMICROBIAL N-20/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb ANTIMICROBIAL N-20/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 0.15-0.35 lb ANTIMICROBIAL N-20/ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100-1:4.

For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add ANTIMICROBIAL N-20 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 0.25 gal ANTIMICROBIAL N-20/1,000 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 N-20/1,000 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 N-20 (0.1-6.4 gal ANTIMICROBIAL N-20 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 N-20 (0.8-6.4 gal ANTIMICROBIAL N-20 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm ANTIMICROBIAL (0.1-1.2 gal ANTIMICROBIAL N-20 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 N-20 (0.8-6.4 gal ANTIMICROBIAL N-20 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 N-20 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 N-20 (1.2-6.4 gal ANTIMICROBIAL N-20 per 2400 barrels of water). Additions of ANTIMICROBIAL N-20 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 N-20 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 N-20 /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 N-20/1,000 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 N-20/1,000 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 N-20/1,000 gal of water to the system.

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal ANTIMICROBIAL N-20/1,000 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 N-20/1,000 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 N-20/1,000 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 N-20/1,000 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 N-20/1,000 gal of water to the system.

SUBSEQUENT DOSE: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal ANTIMICROBIAL N-20/1,000 gal of water in the system per day.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

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-20 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 1-12 ppm ANTIMICROBIAL N-20 based on the flow rate through the system, depending on the severity of contamination.

INTERMITTENT METHOD
INITIAL DOSE: When the system is noticeably fouled, add 6-12 ppm ANTIMICROBIAL N-20. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 3-12 ppm ANTIMICROBIAL N-20 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 6-12 ppm ANTIMICROBIAL N-20 continuously to the system.

SUBSEQUENT DOSE: When microbial control is evident, pump a continuous feed of 1-6 ppm ANTIMICROBIAL N-20 to the system.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE
Add 36-118 ppm ANTIMICROBIAL N-20 based on the flow rate through the system, depending on the severity of contamination.

INTERMITTENT METHOD
INITIAL DOSE: When the system is noticeably fouled, add 60-118 ppm ANTIMICROBIAL N-20 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 36-118 ppm ANTIMICROBIAL N-20 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 60-118 ppm ANTIMICROBIAL N-20 to the system.

SUBSEQUENT DOSE: When microbial control is evident, pump a continuous feed of 36-118 ppm ANTIMICROBIAL N-20 to the system.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Add 0.0015-0.095 gal ANTIMICROBIAL N-20/1,000 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 N-20/1,000 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 N-20/1,000 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 N-20/1,000 gal of water in the system.

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0015-0.047 gal ANTIMICROBIAL N-20/1,000 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.

11/16/05