

67869-37

06/05/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Antimicrobials Division (7510C)  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

EPA Reg. Number:

67869-37

Date of Issuance:

JUN 05 2003

Term of Issuance:

CONDITIONAL

Name of Pesticide Product:

Vericide Bronopol

## NOTICE OF PESTICIDE:

☒ Registration☐ Re-registration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP code):

Verichem Inc.  
3499 Grand Avenue  
Pittsburgh, PA 15225

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above 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, as amended.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA Section 4, or as required by registration review under FIFRA Section 3(g).

2. Make the following labeling changes:

- a. Revise the EPA Registration Number to read,  
"EPA Reg. No. 67869-37."
- b. Place the appropriate Establishment No. on the product labeling.

Signature of Approving Official:

Marshall Swindell, Product Manager, Team 33,  
Regulatory Management Branch I, Antimicrobials Division

Date:

JUN 05 2003

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Reg. No. 67869-37

- c. Place the phrase, "Keep Out of Reach of Children," directly above the signal word, "Danger."
  - d. Delete the phrase, "General Use Directions", from the product labeling.
3. Submit three copies of a final printed production label.

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 accepted label is enclosed for your records.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch 1  
Antimicrobial Division(7510C)

Enclosure

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**Corrosive.** Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Harmful if absorbed through the skin. Do not get in eyes, on skin or on clothing. Do not breathe dust. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking and using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Applicators and other handlers must wear: coveralls over long sleeved shirt and long pants, socks and chemical resistant footwear, goggles or face shield and chemical resistant gloves such as or made of any water proofed material. If dusts are generated, wear an approved dust respirator.

**USER SAFETY REQUIREMENTS:** Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

**FIRST AID**  
*If in eyes:* Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor 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 for treatment advice.

*If swallowed:* Call poison control center or doctor immediately 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.  
*If inhaled:* Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

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.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or 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. Do not apply in marine and/or estuarine oil fields. Do not contaminate water by cleaning of equipment or disposal of waste.

**In Case of Chemical Emergency:** Call CHEMTREC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. 800-424-9300.

**PHYSICAL AND CHEMICAL HAZARDS:** Avoid contact with metal equipment such as scoops, mills and sieves.

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep away from heat.

**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 Environment Control Agency, or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture. Dispose of container in a sanitary landfill, or by incineration, if allowed by State and local authorities. If burned, stay out of smoke.

# VERICIDE BRONOPOL

Vericide Bronopol is a concentrated free-flowing crystalline solid microbiocide for use in controlling bacteria and algae found in industrial application, and as a preservative to inhibit bacterial spoilage during manufacture, distribution, use and storage of industrial, consumer, household and institutional products. Not for the control of algae in the State of California.

<b>Active Ingredients:</b>	
2-bromo-2-nitropropane-1,3-diol .....	99.0%
<b>Inert Ingredients:</b> .....	1.0%
	100.0%

**DANGER!**  
**KEEP OUT OF REACH OF CHILDREN**

EPA Reg. 67869-  
EPA Est. No. 33753-GRB-003  
ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

LOT NO. \_\_\_\_\_  
JUN 0 5 2003  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
67869-33 kg

SOLD AND DISTRIBUTED BY:  
 **VERICHEM**  
VERICHEM INC.  
3499 Grand Avenue  
Pittsburgh, PA 15226

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**GENERAL USE DIRECTIONS:** To control the growth of slime forming, spoilage, odor causing and corrosion inducing bacteria and algae in industrial applications. Vericide Bronopol can be dosed directly, or by preparing a stock solution immediately prior to application, either by open pouring (not cooling water treatment) or by metered pump. For process application treatments Vericide Bronopol may be slug dosed initially when the system is noticeable fouled and reduced to a maintenance dose once microbial control is evident. For some applications treatment may be by slug dose only, or by maintenance dose only. More frequent and higher dosing should be used where contamination is heavy. The recommended dosing regimes (slug/maintenance dose) and the dose rates are as indicated in the individual use area instructions. For use of cold water soluble bags (PVA film) 1 x 0.5 kilo bag/1300 gallons is equivalent to 100 ppm. For preservation during the manufacture, distribution, storage and use of industrial, consumer, household and institutional products Vericide Bronopol is best added at any liquid phase as late as possible during the manufacturing process. It may be added by pre-dissolving in any water to be incorporated into the formulation. Add after any heating stage, or when the product has cooled below 40° C. Ensure good mixing and even distribution throughout the product. Do not apply this product in a way that will contact workers or other persons.

**INDUSTRIAL COOLING WATER:** For use in cooling towers, evaporate condensers, open and closed loop cooling and stored (non-potable) water, industrial and/or commercial air washers, air conditioning and humidifying systems. Vericide Bronopol will reduce the biofouling of pipework, heat exchangers, condenser tubes and minimize microbial corrosion. Apply Vericide Bronopol once weekly to once monthly to the sump or tank where turbulence will ensure quick dissolution. Do not apply by open pouring of liquid to cooling towers and evaporative condensers. Shock dose Vericide Bronopol at 50 to 100 ppm (0.42 to 0.84 lb/1000 gallons). Subsequent dosing can be reduced to 10 ppm. For small packages a 40g sachet in 200 gallons (or 4g in 20 gallons) will achieve 50 ppm.

**PAPER MILL PROCESS WATER:** Apply at a convenient point early in the process system (machine chest, constant head box or backwater loop system). Dose Vericide Bronopol once to three times daily at 1 to 25 ppm in the process water. This equates to 0.02 to 0.5 lb per ton of finished paper or paperboard.

**PAPER MILLS - BULK PAPER:** Add Vericide Bronopol directly into the hydropulper, machine chest or stock chest. Apply once weekly to once daily at 50 to 200 ppm (0.1 - 0.4 lb per ton).

**OIL PROCESS WATERS:** For use in oil and gas well injection and formation waters Vericide Bronopol Solution should be injected at any convenient point at 25-100 ppm (0.009 - 0.036 lb/barrel) from once per week to once per month depending on the severity of contamination.

**OIL AND GAS FLUIDS:** For preservative use in both terrestrial and offshore drilling muds and packer fluid, to control contamination and degradation of a wide range of gels and fluids including fracturing, enhanced oil recovery, injection, waterflood, workover and completion fluids. Add Vericide Bronopol at 50 to 100 ppm (0.18 - 0.36 lb/ barrel). For well squeezed fluids add Vericide Bronopol at 25-200 ppm.

**OIL AND GAS PIPELINE AND TANK MAINTENANCE:** For use in water bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems. Inject Vericide Bronopol directly into the water bottoms or pipeline, or add to the hydrocarbon phase. Treat once daily for pipeline maintenance to once every one to two months for both storage and transportation systems. Vericide Bronopol should be applied to achieve 25-200 ppm in the aqueous phase. Add higher concentrations to the hydrocarbon phase, which will result in longer term protection by the gradual diffusion into the water phase. Dose will depend on the volume or crude or oil and the expected water fraction.

**METALWORKING FLUIDS:** For use in soluble oils, semi-synthetic and synthetic fluids. Add directly to the sump (with agitation) and allow to circulate for about one hour before shutdown. Vericide Bronopol may be incorporated in metalworking fluid concentrate by the manufacturer who should ensure that any

incompatibility  
Bronopol (1000 ppm)  
**STARCH**  
Vericide Bronopol formulation  
State of California  
**ABSORBENT**  
spraying or  
av. per 100  
**PAINTS**  
acrylic, sty  
paints, pho  
Vericide Bronopol  
4.2 lb/1000  
**ADHESIVE**  
total formul  
**CHEMICAL**  
of 1-28% i  
use 100-50  
**WATER**  
use of four  
0.84 lb / 10  
four reser  
preservation  
formulation  
**WATER**  
preservation  
final formul  
**CONSUMABLE**  
**SURFACE**  
as dishwas  
and cationi  
and consum  
based on  
lbs/1000 g  
**CONDITION**  
opinion of  
reliable an  
inherently  
consequen  
of other m  
all of whic  
the Buyer.  
descriptor  
**THE MAINTENANCE**  
**WARRANTY OR IMPLICATION**  
**LIABLE**  
**RESULT**  
The manu  
the foreg  
agreement