

67869-38

2-28-08

1/4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

022808

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Colleen Snyder  
Manager of Regulatory Affairs for,  
Verichem, Inc.  
3499 Grand Ave.  
Pittsburgh, PA 15225

Subject: Vericide Bronopol Solution  
EPA Registration Number 67869-38  
Your Notification Dated February 4<sup>th</sup>, 2008  
EPA Received Date February 6<sup>th</sup>, 2008

The notification referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, FIFRA, as amended, to change the source of active ingredient, is acceptable.

The notification has been part of the permanent record of this file.

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

Sincerely,

A handwritten signature in cursive script that reads "M Swindell".

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





United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

|  |  |  |
|--|--|--|
| 1. Company/Product Number<br>67869-38  | 2. EPA Product Manager<br>Marshall Swindell  | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br>Vericide Bronopol Solution  | PM#<br>34  |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br>Verichem, Inc<br>3499 Grand Avenue<br>Pittsburgh, PA 15225<br><br><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:<br>EPA Reg. No. _____<br><br>Product Name _____ |  |

**Section - II**

|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.                            | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application.   |
| <input checked="" type="checkbox"/> Notification - Explain below.              | <input type="checkbox"/> Other - Explain below.  |

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

Notification of Source of Active Ingredient per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 0152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of the 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 to enforcement action and penalties under sections 12 and 14 of FIFRA. Please see cover letter for additional explanation.

**Section - III**

|   |  |   |   |   |  |
|---|--|---|---|---|--|
| 1. Material This Product Will Be Packaged In:   |  |   |   | 2. Type of Container  |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                     | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No |   | <input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><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<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container |  | 4. Size(s) Retail Container<br>55 lb drum - 110 lb drum   |   | 5. Location of Label Directions<br><input checked="" type="checkbox"/>  |  |
| 6. Manner in Which Label is Affixed to Product<br><input checked="" type="checkbox"/> Lithograph Paper glued Stenciled  |  |   | <input type="checkbox"/> Other _____      |   |  |

**Section - IV**

|   |   |   |
|---|---|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)   |   |   |
| Name<br>Colleen M. Snyder   | Title<br>Manager of Regulatory Affairs    | Telephone No. (include Area Code)<br>412-331-7293 |
| Certification<br>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. |   | 6. Date Application Received<br><br>(Stamped)     |
| 2. Signature<br>  | 3. Title<br>Manager of Regulatory Affairs |   |
| 4. Typed Name<br>Colleen M. Snyder  | 5. Date<br>February 04, 2008              |   |

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

**Corrosive.** Causes eye and skin damage. Do not get in eyes, on skin or on clothing. Avoid breathing spray mists. Wear long sleeve shirt and long pants, socks plus shoes. Wear goggles or face shield and chemical resistant rubber gloves when handling. Do not apply this product in a way that will contact workers or other persons. Harmful or fatal if swallowed. May cause allergic skin reactions in certain individuals. Wash thoroughly with soap and water after handling. Discard clothing or other absorbent materials that have been heavily contaminated with this product's concentrate. Do not reuse them. Remove lightly contaminated clothing and wash separately from other laundry using detergent and hot water before re-use.

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.

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

**PESTICIDE STORAGE:** Store in a cool dry place in tightly closed original containers. Prolonged storage under freezing conditions may cause the active ingredients to crystallize.

**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:** 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 SOLUTION

Vericide Bronopol Solution is a liquid microbicide for use in controlling the growth of bacteria and algae in industrial applications. Not for the control of algae in the State of California.

**Active Ingredients:**

2-bromo-2-nitropropane-1,3-diol ..... 10.0%

**Inert Ingredients:** ..... 90.0%

100.0%

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

EPA Reg. No. 67869-38

EPA Est. No. 67869-PA-01

LOT NO. \_\_\_\_\_

\_\_\_\_\_ LB. NET WT. \_\_\_\_\_ kg

SOLD AND DISTRIBUTED BY:



**VERICHEM INC.**  
3499 Grand Avenue  
Pittsburgh, PA 15225

Proof Approval 66-03/03

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

To control the growth of slime forming, spoilage, odor causing and corrosion inducing bacteria and algae in industrial applications. Vericide Bronopol Solution can be dosed directly either by open pouring (not cooling water treatment) or by metered pump. For product preservation Vericide Bronopol Solution is best added after any heating stage or when the product has cooled below 40° C.

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS:** Vericide Bronopol Solution may be dosed directly into the sump or basin or added by a suitable chemical pump. Where metering pumps are used, these must be set to deliver the required dose within 1 hour. The dosing point should be located close to the outlet from the basin to insure rapid dispersal around the system. Do not apply by open pouring of the liquid. Shock dose Vericide Bronopol Solution once or twice weekly as a normal routine or more frequently where contamination is heavy. In heavily fouled systems, the tower should be drained and cleaned before treating. Vericide Bronopol Solution should be shocked dosed at 250 to 1000 ppm (2 pt to 8 pt per 1000 gallons) depending on the condition of the tower, the quality of raw water input and the amount of bleed off.

**INDUSTRIAL PROCESS WATER:** For use in closed circuit machine cooling (injection moulding etc.) and stored (non-potable) water. To reduce the biofouling of pipework, heat exchangers, condensers tubes and minimize microbially produced corrosion. Shock dosing in the sump/tank of the process water system is preferred. In open systems shock dose once weekly to once monthly depending on the degree of contamination. Closed circuit systems require less frequent dosing. Dose initially at 500 ppm Vericide Bronopol Solution (4 pt/1000 gallons), when successful, lower to a minimum of 100 ppm. For intermittent treatment during routine maintenance use Vericide Bronopol Solution at 1000 ppm and a contact time of at least one hour.

**OIL AND GAS FLUIDS:** For use in both terrestrial and offshore drilling muds and packer fluids, for the control of contamination and degradation of a wide range of gels and fluids including fracturing, enhanced oil recovery, injection, well squeezing, drilling, workover and completion fluids. Add Vericide Bronopol Solution at 500 to 1000 ppm (4 to 8 pt/1000 gallons or 0.18 to 0.36 pt per barrel). For well squeezed fluids add Vericide Bronopol Solution at 250 to 2000 ppm (2 to 16 pt / 1000 gallons).

**OIL PROCESS WATERS:** For use in oil and gas well injection and formation waters. Vericide Bronopol Solution should be injected as a slug dose at any convenient point at 250 to 1000 ppm (2 pt to 8 pt /1000 gallons). A slug dose should be applied from once per week to once per month depending on the severity of contamination.

**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 Solution 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 Solution should be applied to achieve 250-2000 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. 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 and circulate for about one hour before shutdown. Vericide Bronopol Solution may be incorporated in metalworking fluid concentrate by the manufacturer who should ensure that any incompatibility will not affect efficacy. In diluted fluids 2500 to 10,000 ppm of Vericide Bronopol Solution is sufficient to control microbial growth (5 gallons of Vericide Bronopol Solution in 1000 gallons will give a dose level of 5000 ppm). For maintenance, add 1000-4000 ppm of Vericide Bronopol Solution.

**PAPER MILL PROCESS WATER SYS**  
early in the process system (machine chest loop system). Dose Vericide Bronopol Solution to 250 ppm in the process water depending on quality of raw paper and type and degree (100 to 2500 ml (0.2 to 5 pt) per tonne of finished paper).

**PAPER MILLS - BULK PULP:** Add Vericide Bronopol Solution to the machine chest or stock Solution once weekly to once daily at 500 to 1000 ppm (1 to 4 pt / 1000 gallons) depending on degree of contamination.

**INDUSTRIAL AND/OR COMMERCIAL WATER TREATMENT CONDITIONERS AND HUMIDIFYING AGENTS:** Vericide Bronopol Solution is effective against bacterial and algal growth and to remove odors. Shock dosing is preferred and should be carried out on a basis once per week or month. Heavily fouled systems require weekly treatment. The initial dose of Vericide Bronopol Solution is 250 to 1000 ppm (0.2 to 1.0 pt/cubic meter or 3.8 pints/1000 gallons depending on the degree of contamination). Subsequent dosing can be reduced during regular maintenance and cleaning. Vericide Bronopol Solution is also recommended with a contact time of at least one hour.

**ADHESIVES:** Add 1 to 5 pt of Vericide Bronopol Solution to any water to be incorporated into adhesives.

**ABSORBENT CLAYS:** Impregnate absorbent clays with 250 to 2000 ppm of Vericide Bronopol Solution (2 to 16 pt / 1000 gallons).

**STARCH, PIGMENT AND MINERAL OILS:** Add Vericide Bronopol Solution to water based suspensions of starch, pigment and mineral oil. Dose 250 to 1000 ppm based on the final formulation volume (8 to 16 pt / 1000 gallons) depending on use in pigments in the State of California.

**PAINTS AND OTHER EMULSION SYSTEMS:** Add Vericide Bronopol Solution to acrylic, styrene acrylic, polyvinyl acetate and other emulsion based paints, photographic emulsions, and other emulsion systems. Add Vericide Bronopol Solution to the final formulation volume (8 to 16 pt / 1000 gallons) depending on use in pigments in the State of California.

**WATER BASED PRINTING INKS AND COATINGS:** Add Vericide Bronopol Solution to the use of fountain solutions, shock dose Vericide Bronopol Solution at 1000 ppm (4 to 8 pt / 1000 gallons) depending on use in fountain solutions. For in-can preservation dose Vericide Bronopol Solution at 250 to 1000 ppm based on the final formulation volume (8 to 16 pt / 1000 gallons).

**CONDITIONS OF SALE:** The Directions for Use are based on field use and tests. Vericide Bronopol Solution is a reliable and should be followed carefully to eliminate all risk inherently associated with use of this product. Other weather conditions, presence of other materials, or other unintended consequences may result in a manner inconsistent with its labeling, all of which are assumed by the Seller. All such risks shall be assumed by the user. The manufacturer makes no other warranty of fitness or merchantability, express or implied warranty. THE MANUFACTURER MAKES NO OTHER WARRANTY OF FITNESS OR MERCHANTABILITY. THE MANUFACTURER BE LIABLE FOR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT.

The manufacturer offers this product, and the user agrees to the foregoing Conditions of Sale and Warranty agreement in writing signed by a duly authorized representative.