



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Verichem, Inc.  
3499 Grand Avenue  
Pittsburgh, PA 30144

APR 15 2008

Attention: Colleen Synder  
Regulatory Manager

Subject: VeriGuard 3003  
EPA Reg. No. 67869-45  
Amendment Application Date: January 16, 2008  
EPA Received Date: February 16, 2008

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. The Agency has no objections to your change use directions/use rates to your label.

If you have any questions concerning this letter, please contact Demson Fuller at (703) 308-8062.

Sincerely,

A handwritten signature in black ink, which appears to read "M Swindell", is positioned above the printed name.

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

284

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**DANGER. CORROSIVE.** Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Wear goggles, safety glasses or face shield and chemical resistant gloves when handling. May be fatal if inhaled. Do not breathe vapor or spray mist dust. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash clothing before reuse.

**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. Wash the outside of gloves before reusing. As soon as possible, wash thoroughly. Users should remove personal protective equipment immediately after handling this product.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. 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.

**FIRST AID**

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minute, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. 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.

**TELEPHONE NUMBERS:**

For emergency information on (product), call 1-412-331-7299, Monday through Friday, 5 am to 5 PM. After 5 PM call your poison control center. For transportation emergencies call Chemtrec at 1-800-424-9300.

# VERIGUARD® 3003

TO INHIBIT THE GROWTH OF MICROORGANISMS IN AQUEOUS SYSTEMS. CONTROLS BACTERIA, FUNGI, AND YEASTS. CONTROLS THE GROWTH OF MICROORGANISMS IN RESERVATION APPLICATIONS INCLUDING; ADHESIVES, GLUES AND TACKIFIER PRESERVATION; CONSTRUCTION PRODUCTS AND HOUSEHOLD PRODUCTS; METAL WORKING FLUIDS CONTAINING WATER; ENHANCED OIL RECOVERY; PAINTS COATINGS AND STAINS; PIGMENTS, DYES AND FILLER SUSPENSIONS; POLYMER DISPERSIONS AND EMULSIONS.

**Active Ingredient:**

1,2-DIBROMO-2,4-DICYANO BUTANE: .....	10%
2,2-DIBROMO-3-NITRILOPROPIONAMIDE: .....	10%
Inert Ingredients: .....	80%
<b>TOTAL</b> .....	<b>100.0%</b>

## DANGER

• KEEP OUT OF REACH OF CHILDREN

EPA Reg. No. 67869-45

EPA Est. No. 67869-PA-01

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

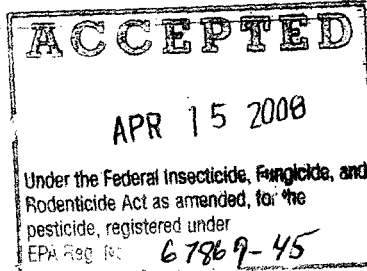
\_\_\_\_\_ LB. NET WT. \_\_\_\_\_ kg



**VERICHEM INC.**

3499 Grand Avenue  
Pittsburgh, PA 15225  
412-331-7299

Amended ppm - proof 1/16/08



ACCEPTED

APR 15 2008

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 67869-45

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

**NOTE:** ADD VERIGUARD® 3003 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF VERIGUARD® 3003 DUE TO THE HIGH pH OF MANY ADDITIVE FORMULANTS.

#### INDUSTRIAL PROCESS AND WATER SYSTEMS

**FOR CONTROL OF BACTERIA:** Add 0.00095-0.0095 gallon VeriGuard® 3003 per 1,000 gallon of water in system, depending on severity of contamination.

**INTERMITTENT OR SLUG METHOD: Initial Dose:** When system is noticeably fouled, add 0.0048-0.0095 gallon VeriGuard® 3003 per 1,000 gallon of water in the system every 4 days, or as needed to maintain control. **Subsequent Dose:** When microbial control is evident add 0.0024-0.0095 gallon VeriGuard® 3003 per 1,000 gallon 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 gallon VeriGuard® 3003 per 1,000 gallon of water to the system. **Subsequent Dose:** Maintain this level by pumping a continuous feed of 0.00095-0.0048 gallon VeriGuard® 3003 per 1,000 gallon of water to the system per day. Badly fouled systems must be cleaned before treatment is begun.

**FOR CONTROL OF FUNGI AND ALGAE:** Add 0.0029-0.0095 gallon VeriGuard® 3003 per 1,000 gallon of water in system, depending on severity of contamination.

**INTERMITTENT OR SLUG METHOD: Initial Dose:** When system is noticeably fouled, add 0.0048-0.0095 gallon VeriGuard® 3003 per 1,000 gallon of water in the system every 4 days, or as needed to maintain control. **Subsequent Dose:** When microbial control is evident add 0.0024-0.0095 gallon VeriGuard® 3003 per 1,000 gallon 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 0.048-0.095 gallon VeriGuard® 3003 per 1,000 gallon of water to the system. **Subsequent Dose:** Maintain this level by pumping a continuous feed of 0.029-0.095 gallon VeriGuard® 3003 per 1,000 gallon of water to the system per day. Badly fouled systems must be cleaned before treatment is begun.

#### INDUSTRIAL RECIRCULATING WATER COOLING TOWERS:

Add VeriGuard® 3003 to the basin (or any other point of uniform mixing). Additions 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 of 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.

**PAPER MILLS:** For the control of bacterial, fungal, and yeast growths in pulp, paper and paperboard mills, add VeriGuard® 3003 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 VeriGuard® 3003 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 VeriGuard® 3003 per ton of paper (dry basis), as necessary for control. Moderately fouled systems should be

treated continuously with 0.35-0.50 VeriGuard® 3003 per ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb VeriGuard® 3003 per 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 be advisable. Slightly fouled systems should be treated continuously with 0.15-0.35 lb VeriGuard® 3003 per ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

**PAPER:** Use VeriGuard® 3003 as a preservative for the control of bacteria and fungi in paper and paper additives. VeriGuard® 3003 may be fed directly to the additive at the following recommended dosages.

Dose Ranges:	
Paper Auxiliaries/Additives	0.28-1.7%
Paper Slurries	0.4-0.6%
Fiber Processing Fluids	0.20-1.20%

#### MATERIAL PRESERVATION

**ADHESIVE, GLUES AND TACKIFIER PRESERVATION:** Add VeriGuard® 3003 as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives. VeriGuard® 3003 can be directly mixed homogeneous into dry glues before they are concentrated.

Dose Ranges (per 1000 gallons of material):	
Albumin Containing Glues	125-6000 ppm (0.0125-0.6%)
Bone Glues	125-6000 ppm (0.0125-0.6%)
Casein-Containing Adhesives	125-6000 ppm (0.0125-0.6%)
Cellulose-Based Adhesives	125-6000 ppm (0.0125-0.6%)
Dextrin-Based Adhesives	125-6000 ppm (0.0125-0.6%)
Fish Glues	125-6000 ppm (0.0125-0.6%)
Gelatin-Based Glues	125-6000 ppm (0.0125-0.6%)
Leather Glues	125-6000 ppm (0.0125-0.6%)
Plant Glues	125-6000 ppm (0.0125-0.6%)
Polymer Dispersion-Based Adhesives	125-6000 ppm (0.0125-0.6%)
Skin Glues	125-6000 ppm (0.0125-0.6%)
Starch-Based Glues (Liquid)	125-6000 ppm (0.0125-0.6%)
Starch-Based Glues (Solid)	125-6000 ppm (0.0125-0.6%)
Polyvinyl acetate, styrene-butadiene, methyl cellulose & acrylic	125-6000 ppm (0.0125-0.6%)
Polyvinyl alcohol & Hydroxyethyl cellulose	125-6000 ppm (0.0125-0.6%)
Epoxy, polyester	125-6000 ppm (0.0125-0.6%)

#### CONSTRUCTION PRODUCTS AND HOUSEHOLD PRODUCTS:

Add VeriGuard® 3003 for the control of bacteria and fungi in water soluble and water dispersed construction products. VeriGuard® 3003 can be fed either directly to the finished construction or household product or to one of the raw materials used in the formulation of the construction and/or household product.

Dose Ranges (per 1000 gallons of material):	
Biopolymers (e.g. Xanthan)	100-6000 ppm (0.01-0.6%)
Caulking Materials	100-6000 ppm (0.01-0.6%)
Mastics	100-6000 ppm (0.01-0.6%)
Ceramic Glazes	100-6000 ppm (0.01-0.6%)
Chemical Cleaning Solutions	100-6000 ppm (0.01-0.6%)
Cleaning Solutions	100-6000 ppm (0.01-0.6%)
Concrete and Masonry Additives	100-6000 ppm (0.01-0.6%)
Concrete	100-6000 ppm (0.01-0.6%)
Fire Extinguishing Medium	100-6000 ppm (0.01-0.6%)
Photographic Gelatins	100-6000 ppm (0.01-0.6%)
Plasters	100-6000 ppm (0.01-0.6%)
Polishes	100-6000 ppm (0.01-0.6%)
Rubber Systems	100-6000 ppm (0.01-0.6%)
Tints	100-6000 ppm (0.01-0.6%)
Wax Emulsions	100-6000 ppm (0.01-0.6%)
Joint cements	100-6000 ppm (0.01-0.6%)

484

**METAL WORKING 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 VeriGuard® 3003 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 0.50 gallon VeriGuard® 3003 per 1,000 gallon of metalworking fluid to the system. Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 0.2-0.4 gallon VeriGuard® 3003 per 1,000 gallon of metal working 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 VeriGuard® 3003 (0.1-6.4 gallon VeriGuard® 3003 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 VeriGuard® 3003 (0.8-6.4 gallon VeriGuard® 3003 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm VeriGuard® 3003 (0.1-1.2 gallon VeriGuard® 3003 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 VeriGuard® 3003 (0.8-6.4 gallon VeriGuard® 3003 per 2400 barrels of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending the severity of contamination.

Addition of VeriGuard® 3003 may be made at the free knockouts, before or after the injection pumps and injection well headers. NOTE: For control of bacteria, yeast, and fungi in aqueous solutions biopolymer used in flooding operations, add 15-80 ppm VeriGuard® 3003 (1.2-6.4 gallon VeriGuard® 3003 per 2400 barrels of water). Additions of VeriGuard® 3003 should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

**PAINTS, COATINGS AND STAINS:** VeriGuard® 3003 is generally incorporated directly into pigments and fillers, but it can also be first dissolved in a suitable solvent or added directly to the pre-heated binder systems. For best results, the preservative should be homogeneously incorporated into the stain or paint. Discoloration may occur, and should be evaluated.

Dose Ranges (per 1000 gallons of material):

Alkyd Resin-Based Systems	.....125-6000 ppm (0.0125-0.6%)
Casein-Systems	.....125-6000 ppm (0.0125-0.6%)
Latex-Based Systems	.....125-6000 ppm (0.0125-0.6%)
Oil-Containing Systems	.....125-6000 ppm (0.0125-0.6%)
Synthetic Resin Dispersions	.....125-6000 ppm (0.0125-0.6%)

**PIGMENTS, DYES AND FILLER SUSPENSIONS:** Mix VeriGuard® 3003 evenly with dispersing agents for processes where the temperature does not exceed 100°C. For all other processes, VeriGuard® 3003 is metered directly into the material to be preserved during the cooling step after

the temperature falls below 50°C and homogeneously distributed by stirring.

Dose Ranges (per 1000 gallons of material):

Calcium Carbonate Slurries	.....125-6000 ppm (0.0125-0.6%)
Carbon Black Pigment Slurries	.....125-6000 ppm (0.0125-0.6%)
Clay Slurries	.....125-6000 ppm (0.0125-0.6%)
Iron Oxide Pigment Slurries	.....125-6000 ppm (0.0125-0.6%)
Kaolin Slurries	.....125-6000 ppm (0.0125-0.6%)
Organic Dyes and Pigment Slurries	.....125-6000 ppm (0.0125-0.6%)
Other Filler Suspensions	.....125-6000 ppm (0.0125-0.6%)
Starch Slurries	.....125-6000 ppm (0.0125-0.6%)
Inks	.....125-6000 ppm (0.0125-0.6%)

**POLYMER DISPERSIONS AND EMULSIONS:** VeriGuard® 3003 is added immediately after the preparation of the polymer dispersion or emulsion during the cooling process. Losses of active ingredient caused by elevated temperatures should be avoided.

Dose Ranges: (Polymer Dispersions and Emulsions)  
(per 1000 gallons of material):

Acrylic-Systems	.....125-6000 ppm (0.0125-0.6%)
Other Polymer Dispersions	.....125-6000 ppm (0.0125-0.6%)
Polyester-Based Systems	.....125-6000 ppm (0.0125-0.6%)
Polyurethane-Based Systems	.....125-6000 ppm (0.0125-0.6%)
Polyvinyl acetate (PVA) Systems	.....125-6000 ppm (0.0125-0.6%)
Styrene Butadiene Systems	.....125-6000 ppm (0.0125-0.6%)
Vinyl Acrylic-Based Systems	.....125-6000 ppm (0.0125-0.6%)
Latex Emulsions	.....125-6000 ppm (0.0125-0.6%)

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

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If waste 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.

**PESTICIDE STORAGE:** To maintain product quality, store at temperatures below 50°C. Keep container tightly closed when not in use.

**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 the state and local authorities.

**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 FOR FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIVES AND WARRANTIES.

**NOTICE TO BUYER:** Buyer assumes all risks of use and handling which are at variance in any way with the directions hereon. There are no warranties which extend beyond the description on this label.

