



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 10, 2015

Ms. Lazelle Whitworth
Product Registration Coordinator
BWA Water Additives U.S. LLC
1979 Lakeside Parkway
Tucker, GA 30084

Subject: Notification per PRN 98-10 – Adding Establishment Number
Product Name: **Bromicide Tablets**
EPA Registration Number: **83451-4**
Application Date: November 10, 2015
Decision Number: 511513

Dear Ms. Whitworth:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Page 2 of 2
EPA Reg. No. 83451-4
Decision No. 511513

If you have any questions, you may contact Killian Swift at 703-308-6346 or via email at Swift.Killian@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Wanda J. Fuller, for". The signature is written in a cursive style.

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

{All text in brackets [xxx] is optional and may or may not be included on a final label.}{All text in braces {xxx} is administrative and will not appear on a final label.}

BromiCide Tablets

{Optional marketing statements that may be used with photo processing wash water treatment; when sold as tablets.}

[For control of microbial growth in photo processing wash waters.]

{Optional marketing statements that may be used with photo processing wash water treatment; when sold as lab pak (tablets in an erosion container).}

[For control of microbial growth in photo processing wash waters.]

{Optional marketing statements that may be used with, cooling water, wastewater, pulp and paper mills, etc.}

[For use as a Disinfectant, Sanitizer, Bactericide, Fungicide, Algicide, and for Control of Microbial Slimes in Industrial Processes and Water Systems such as: Recirculating Cooling Water Systems, Once-Through Cooling Water Systems, Wastewater Treatment Systems, Brewery Pasteurizers, Air Conditioners, Dehumidifiers, Evaporative Coolers, Paper and Paperboard Process Water, and Water Fountains/Reflecting Ponds.]

[Sanitizer]

[Disinfectant]

[Bactericide]

[Algicide]

[Fungicide]

[Slimicide]

{The appropriate statement for tablet size will be chosen from the following statements when the product is sold as individual tablets, not when sold encased in dispenser such as mini pak dispenser and floaters, etc.}

[Each tablet weighs approximately 20 grams.]

[Each tablet weighs approximately 22 grams.]

[Each tablet weighs approximately 60 grams.]

[Each tablet weighs approximately 70 grams.]

[Each tablet weighs approximately 100 grams.]

NOTIFICATION

83451-4

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

12/10/2015

| | |
|--|--------|
| ACTIVE INGREDIENT: | |
| 1-Bromo-3-chloro-5,5-dimethylhydantoin | 96.0% |
| OTHER INGREDIENTS: | 4.0% |
| TOTAL: | 100.0% |

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID:

IF IN EYES:

- Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the 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 or doctor for treatment advice.

IF INHALED:

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

IF SWALLOWED:

- Call poison control center or doctor immediately for treatment advice.
- Have a 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. IN CASE OF TRANSPORT EMERGENCY, CALL [800-424-9300] [telephone number supplied by supplemental registrant].]

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

See [back] [side] panel for additional precautionary statements.

Manufactured for:

BWA Water Additives US LLC
1979 Lakeside Parkway, Suite 925
678-802-3050

EPA REG. # 83451-4

EPA EST. # 90711-OH

EPA EST. # 87349-CHN-001

EPA EST. # 5785-MI-1

Net Weight _____ lbs

{The following directions are for use on industrial and institutional products. One or more use patterns may appear on a single end use label.}

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

{Directions to be used for photo processing wash water treatment; when sold as tablets.}

CONTROL OF BIOLOGICAL GROWTH IN PHOTO PROCESSING WASH WATERS:

When used as directed, this product will control microbial growth in photo processing wash water.

Product Application

The photo processing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of this product is not intended to remove an existing buildup of biological growth. These tablets slowly release both hypobromous and hypochlorous acid when exposed to a flow of water. To prevent or substantially reduce biological growth, tablets should be introduced into the water supply line after the mixing valve and before the processor wash tanks. **IMPORTANT. DO NOT USE WATER FROM THIS LINE TO MIX CHEMICALS!** This may be accomplished by placing 4 to 5 tablets into a chemical feeder plumbed in at that point. The feeder apparatus should be equipped with a flow regulating valve to control the introduction of bromine and chlorine into the water. Begin feeding tablets with the regulating valve at a low setting. If biological growth is observed, increase the flow in small increments until growth is controlled. It is intended that 1.0 to 3.0 parts per million (milligrams per liter) of residual bromine be introduced into the water supply line. Three (3) to nine (9) grams of tablets will introduce 1.0 to 3.0 parts per million residual bromine in 1000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of bromine/chlorine into the process wash tanks, a bromine and chlorine test kit should be used to periodically test the water in the wash tanks. If a residual above 3.0 parts per million is indicated, the feed rate should be reduced until the residual drop to 1.0 parts per million.

{Directions to be used for photo processing wash water treatment; when sold as lab pak (tablets in an erosion container).}

CONTROL OF BIOLOGICAL GROWTH IN PHOTO PROCESSING WASH WATERS:

When used as directed, this product will control microbial growth in photo processing wash water.

Product Application

The photo processing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of this product is not intended to remove an existing buildup of biological growth. This product slowly releases both hypobromous and hypochlorous acid when exposed to a flow of water. To prevent or substantially reduce biological growth, this product may be introduced into the wash water by suspending one or more lab paks directly in the wash tanks as far as possible from film or paper and way from areas of extreme turbulence. Begin by placing one lab pak in the wash tank. If biological growth is observed, add more lab paks, one at a time, waiting several hours between additions. To prevent film damage, rinse lab pak(s) in water before placing into wash tanks. It is intended that 1.0 to 3.0 parts per million (milligrams per liter) of residual bromine be introduced into the water supply line. IMPORTANT. DO NOT USE WATER FROM THIS LINE TO MIX CHEMICALS! Three (3) to nine (9) grams of tablets will introduce 1.0 to 3.0 parts per million residual bromine in 1000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of bromine/chlorine into the process wash tanks, a bromine and chlorine test kit should be used to periodically test the water in the wash tanks. If a residual above 3.0 parts per million is indicated, remove lab paks until the residual drop to 1.0 parts per million. If the processor is turned off for any extended period of time, the lab paks in the wash tanks should be removed.

RECIRCULATING COOLING WATER SYSTEMS:

When used as directed, this product effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers; evaporative condensers, influent water systems such as flow-through filters, cooling ponds, canals, and lagoons; heat exchange water systems; industrial water scrubbing systems; brewery pasteurizers; and industrial air washing systems equipped with a mist eliminator.

ONCE-THROUGH COOLING WATER SYSTEMS:

When used as directed, this product effectively controls algal, bacterial and fungal slimes in once-through fresh or salt water cooling systems, cooling ponds, canals, and lagoons. Treat cooling water with this product at the system intake or other critical areas, where mixing is uniform.

EVAPORATIVE COOLER:

When used as directed, this product effectively controls algal, bacterial and fungal slimes in evaporative coolers.

PASTEURIZER, CAN WARMER, CANNERY, RETORT WATER SYSTEMS:

When used as directed, this product effectively controls algal, bacterial and fungal slimes in cannery cooling canal water, cannery package warmers, cannery pasteurizer water, and retort water.

DOSAGE RATES.

Initial Dose: When the system is noticeably fouled, add 0.2 to 0.6 pounds/1000 gallons (0.24 to 0.72 kilograms/10000 liters) of water contained in the system. Repeat initial dosage until 1 to 3 parts per million (milligrams per liter) bromine residual is established for at least 4 hours.

Subsequent Dose: When microbial control is evident, add 0.1 to 0.3 pounds/1000 gallons (0.12 to 0.36 kilograms/10000 liters) of water contained in the system. Repeat as needed to maintain 1 to 3 parts per million (milligrams per liter) bromine residual for at least 4 hours.

COMMERCIAL AIR CONDITIONER AND DEHUMIDIFIER BASINS OR DRIP PANS:

When used as directed, this product effectively controls microbial slimes in areas where water collects.

DOSAGE RATES.

Place this product in the basin or drip pan close to the outlet drain. Use one or more tablets as necessary to maintain the cleanliness of the system. The number of tablets needed will vary with temperature, humidity, and condensate volume.

WASTEWATER TREATMENT SYSTEMS:

When used as directed, this product effectively controls algal, bacterial, and fungal slimes and offers rapid disinfection of primary, secondary, and tertiary wastewater treatment systems.

DOSAGE RATES:

Add 0.1 to 0.6 pounds/1000 gallons (0.12 to 0.72 kilograms/10000 liters) of water treated to maintain a 0.5 to 5.0 parts per million (milligrams per liter) bromine residual at the injection point in the disinfection contact chamber. Adjust this product's dosage to achieve disinfection and minimize the halogen concentration at the exit of the contact chamber. Do not use treated waste water to irrigate crops.

PULP AND PAPER MILLS:

When used as directed this product effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems; cooling water systems; wastewater treatment systems, service water systems, white water systems, and other process water.

This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products. Do not exceed 1000 grams (2.2 pounds) of this product per dry metric ton of fiber when this product is used in the manufacture of paper and paperboard products that contact food. Treat water at critical areas in the system process where mixing of the product with influent will be uniform. The frequency and duration of the treatment will depend upon the severity of the problem. Badly fouled process systems must be cleaned before initial treatment.

PRODUCT APPLICATION.

TREATMENT BY SYSTEM VOLUME:

When a system is noticeably fouled: add 0.1 to 1.0 pounds of this product to 1000 gallons or 12 to 120 parts per million (milligrams per liter) of water in the system.

When biological control is evident: add 0.1 to 0.75 pounds of this product to 1000 gallons or 12 to 90 parts per million (milligrams per liter) of water in the system.

TREATMENT BY RESIDUAL METHOD:

Add sufficient amount of this product to maintain a measured residual up to 5 parts per million (milligrams per liter) as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 part per million as bromine.

To calculate the appropriate level of this product, estimate the paper mill's daily production, then add, over a 24 hour period, up to 1000 grams (2.2 pounds) of this product per dry metric ton of dry fiber. Test for bromine to verify that the level of 5 parts per million (milligrams per liter) is not being exceeded.

OIL RECOVERY DRILLING MUDS AND PACKER FLUIDS:

When used as directed, this product will control the growth of bacteria such as: anaerobic sulfate-forming bacteria (*Desulforibrio desulfuricans*) and aerobic slime-forming bacteria (*Pseudomonas sp.* and *Bacillus sp.*) which impair the efficiency of the muds and fluids.

Add up to 1800 ppm of bromine directly to the drilling muds and packer fluids depending on the severity of the problem. Fracturing fluids may be added and premixed prior to the fracturing operation or may be added directly by means of a proportioning pump to the blender during the operation. Check bromine levels periodically as muds and fluids are unstable upon standing.

SECONDARY OIL RECOVERY SYSTEMS:

This product may be used in secondary oil recovery water system, such as oil field water flood or salt water disposal systems for the control of sulfate-reducing bacteria and aerobic slime forming bacterial, with impairs the efficiency of the system.

Thoroughly clean badly fouled systems by suitable means prior to the addition of this product. Add product to achieve 560 ppm bromine residual and repeat until control is achieved. Once microbial control has been achieved add product to achieve 280 ppm bromine residual to control the formation of slime causing microbial contamination. Monitor bromine daily and add this product as needed.

[Oilfield End Uses Not approved for use in the State of California]

WATER FOUNTAINS / REFLECTING PONDS:

This product, when used as directed, is effective as a water feature sanitizer and disinfectant.

DOSAGE RATES:

Ensure all equipment is working properly. Backwash the filter system (if present) following manufacturer's directions. Adjust pH to between 7.2-7.6. When using other products as outlined in directions for this product, always follow directions on those products.

A bromine or chlorine residual of 1-2 ppm must first be established in the water. If the residual is established with this product in a brominator, use the brominator at the highest feed rate following manufacturer's recommendations. When the bromine residual reaches 1-2 ppm adjust the feeder accordingly. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 1-3 ppm. Regular use of a test kit is necessary to maintain a bromine residual in the water.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Keep product dry and store in a cool, dry, well-ventilated area away from heat or open flame. Store in original container.

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: *{Use Super Sack, Fiber Drum or Pail section as appropriate for container.}*

[**SUPER SACK:** Completely empty bag into application equipment. Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.]

[**FIBER DRUM:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Non-refillable container. Do

not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

[PAIL: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

EMERGENCY HANDLING: In case of contamination or decomposition do not reseal container. If possible, isolate container in open and well-ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER: Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wear protective clothing and rubber gloves when handling this product. Avoid breathing dust and fumes. Wash thoroughly with soap and water after handling **and before eating, drinking, chewing gum, using tobacco or using the toilet.** Remove contaminated clothing and wash before reuse.

PHYSICAL OR CHEMICAL HAZARDS. STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Use clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to a fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. 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.

{Optional text}

[Treatment levels can be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions.

1. When a bromine test kit is used, results can be read directly as parts per million (milligrams per liter) bromine.
2. When a chlorine test kits is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.]

NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.