

{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.}

## BIOLAB BCDMH GRANULAR

*{Optional marketing statements that may be used with swimming pool sanitization.}*

[For low-odor sanitization]

[For pools & spas] {When directions for both pool and spa sanitation appear on same label.}

[Sanitizer]

[Disinfectant]

[Bactericide]

[Algicide]

[No chlorine odor]

[For use in accordance with U.S. Patent No. 5,264,136]

[For use only in Vantage® Model 'VG' Brominators]

[A Component of the Vantage Water Care Program]

[For pools]

[Less pH sensitive]

*{Optional marketing statements that may be used with spa and hot tub sanitization.}*

[For use only in Vantage® Model 'VG' Brominators]

[A Component of the Vantage Water Care Program]

[For use in accordance with U.S. Patent No. 5,264,136]

[For low-odor sanitization]

[Sanitizer]

[Disinfectant]

[For Spas and Hot Tubs]

[Less pH Sensitive]

*{Optional marketing statements that may be used with mini pak dispenser.}*

[Sanitizer]

[Disinfectant]

*{Optional marketing statements that may be used with floaters.}*

[Sanitizer]

[Disinfectant]

*{Optional marketing statements that may be used with cooling water, wastewater, pulp & 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 Features.]

[Sanitizer]

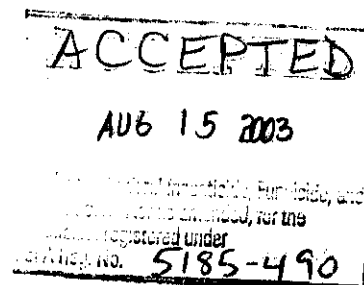
[Disinfectant]

[Bactericide]

[Algicide]

[Fungicide]

[Slimeicide]



ACTIVE INGREDIENT:

1-Bromo-3-chloro-5,5-dimethylhydantoin

96.0%

OTHER INGREDIENTS:

4.0%

TOTAL:

100.0%

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ACCEPTED

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KEEP OUT OF REACH OF CHILDREN

**DANGER**

**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 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 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 MEDICAL EMERGENCY, CALL [1-303-623-5716] [1-877-800-5553] [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.

BIO-LAB, INC.

PO BOX 300002

LAWRENCEVILLE, GEORGIA 30049

EPA REG. # 5185-490

EPA EST. # 5185-GA-1

EPA EST. # 5185-MI-1

NET WEIGHT:

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{Directions for use on this label are divided into two sections on this label (a) recreational water treatment and (b) industrial and institutional applications.}

{The following sets of directions are for recreational water treatment.}

{Directions to be used for swimming pool sanitization.}

## **SWIMMING POOL SANITIZER**

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

**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.

Ensure all pool equipment is working properly. Backwash the filter system 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 pool. 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 {optional text: either residential or commercial or both will be used on label} [1-3 ppm in residential pools] [and] [3-5 ppm in commercial pools]. Regular use of a test kit or test strips is necessary to maintain a bromine residual in the pool water.

Reentry into treated swimming pools is prohibited above levels of 8 ppm bromine due to risk of bodily injury.

{Directions to be used for spa and hot tub sanitization.}

## **SPA AND HOT TUB SANITIZER**

When used as directed, this product is effective as a spa and hot tub sanitizer and disinfectant.

**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.

Ensure all spa equipment is working properly. Clean cartridge filter or backwash sand or DE filter system 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. Fill spa bromine feeder with this product and adjust feeder following manufacturer's directions to yield bromine residual between {optional text: either residential or commercial or both will be used on label} [2-4 ppm in residential spas] [and] [4-6 ppm in commercial spas]. Check feeder regularly and add additional product as needed to maintain the bromine residual. The pump and filter should be operated for at least three hours every day whether spa is used or not. [Do not heat water above 102°F.] [Do not heat water above spa manufacturer's recommended maximum temperature.] Keep the spa free of leaves and other debris. To maintain clear, clean water and insure the performance of your spa chemicals, spas should be drained and refilled with fresh water {optional text: either residential or commercial or both will be used on label} [every 60 days in residential spas] [or ] [a minimum of every 7 days in commercial spas].

Reentry into treated spas is prohibited above levels of 8 ppm bromine due to risk of bodily injury.

{Directions to be used for floaters.}

## SPA AND HOT TUB SANITIZER

When used as directed, this product is effective as a residential spa and hot tub water sanitizer and disinfectant.

**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.

Ensure all spa equipment is working properly. Clean cartridge filter or backwash sand or DE filter system 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. Place this product in spa and let it float freely in the spa or hot tub. Under normal use conditions, use one dispenser per 350 gallons of spa or hot tub water. However, under heavy bather loading or reduced water circulation, additional dispensers may be used to maintain constant active bromine residuals of 2-4 ppm in residential spas or hot tubs. To increase the bromine residual, turn the rotating cap to a higher number located in the flow indicator window. To decrease the bromine residual, turn to a lower number in the flow indicator window.

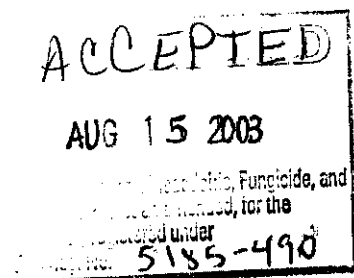
To a freshly filled spa or hot tub, begin with an indicator setting of #5. Check the bromine residual frequently. When a 2-4 ppm bromine residual is obtained, lower the flow indicator setting to maintain constant bromine residuals. The pump and filter should be operated for at least three hours per day. [Do not heat water above 102°F.] [Do not heat water above spa manufacturer's recommended maximum temperature.] Keep the spa free of leaves and debris. Residential spas and hot tubs should be drained, cleaned and refilled with fresh water every 60 days.

{Clear Child Resistant - Outer Sleeve} REMOVE ALONG DOTTED LINE

**EASY DIRECTIONS:** Twist cap to setting #5. Put chemical dispenser in spa water. Test bromine residual frequently (approx. every 2 hours). Upon achieving 2-4 ppm reduce to maintenance setting #1-#2 for maximum longevity.

**TO ADJUST SETTING:** For ease of adjustment place in water. Grip cap firmly in one hand. With other hand, push below windows firmly (Fingers should grip only bottom of canister.) Turn cap and outer sleeve in opposite directions.

**Reentry into treated spas is prohibited above levels of 8 ppm bromine due to risk of bodily injury.**



*{Directions to be used for water features.}*

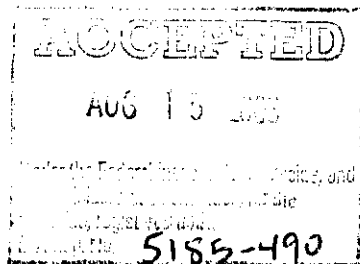
## **WATER FOUNTAINS/REFLECTING PONDS:**

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

**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.

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.



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

*{This Direction for Use statement will be used when directions for industrial and institutional uses appear on the label.}*

**[DIRECTIONS FOR USE:** It is a violation of federal law to use this product in any manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.]

#### **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 controls algal, bacterial, and fungal slime in cannery cooling canal water, cannery package warmers, cannery pasteurizer water, and retort water.

#### **DOSAGE RATES [FOR [COOLING WATER SYSTEMS,] [EVAPORATIVE COOLERS,] AND [PASTEURIZER, CAN WARMER, CANNERY, RETORT WATER SYSTEMS] {or} [FOR ABOVE APPLICATIONS].**

**Initial Dose:** When the system is noticeably fouled, add 0.2 to 0.6 pounds/1000 gallons (0.24 to 0.72 kilograms/10,000 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/10,000 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 in an appropriate dispenser. Use one or more ounces as necessary to maintain the cleanliness of the system. The amount of product needed will vary with temperature, humidity, and condensate volume.

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### **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/10,000 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 wastewater 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 1,000 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 1,000 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 1,000 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 1,000 grams (2.2 pounds) of this product per dry metric ton of dry fiber. Test for bromine to verify the level of 5 parts per million (milligrams per liter) is not being exceeded.

ACCEPTED

AUG 15 2003

For use as a slimicide, fungicide, and  
bactericide only. For the  
purpose of this test.

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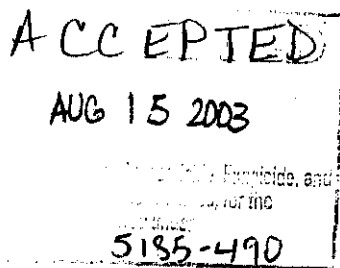
**WATER FOUNTAINS/REFLECTING PONDS:**

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 instructions for products with recreational use patterns, e.g. swimming pool & spa products}*

**[STORAGE AND DISPOSAL:** Keep this product dry in original tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Moisture may decompose this product and cause a violent reaction leading to fire and explosion. In case of decomposition, isolate container if possible and flood area with large amounts of water to dissolve all material before discarding this container. Do not contaminate food or feed by storage or disposal. **CONTAINER DISPOSAL:** Do not reuse container, but place in trash collection. Rinse thoroughly before discarding in trash.]

*{Storage and Disposal instructions for institutional and industrial applications.}*

**STORAGE AND DISPOSAL:**

Do not contaminate water, food, or feed by storage and 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. Contact manufacturer about return of Super Sack for reuse. Otherwise, dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

**[FIBER DRUM:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.]

**[PAIL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.]

**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. Remove contaminated clothing and wash clothing before reuse.

*{Physical or Chemical Hazards Statement for Recreational Water Uses}*

**[PHYSICAL OR CHEMICAL HAZARDS: STRONG OXIDIZING AGENT:** Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. When using automatic feeding devices, always follow manufacturer's directions as to the proper addition of sanitizer product to brominators. 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 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.]

*{Alternative Physical or Chemical Hazards Statement for Industrial and Institutional Water Uses}*

**[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 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 statement for end-use products in containers of less than 5 gallons (liquid) or less than 50 pounds (solid, dry weight).}*

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

*{Environmental hazards statement for end-use products in containers of equal to or greater than 5 gallons (liquid) or equal to or greater than 50 pounds (solid, dry weight). }*

**[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 kit 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.

