



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

EPA Reg. Number:

89110-34

Date of Issuance:

3/18/20

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BIONIX BCD98

Name and Address of Registrant (include ZIP Code):

Ron Starkey  
Isomeric Industries  
3400 Research Forest Drive, Suite B4  
The Woodlands, TX 77381

**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 under the Federal Insecticide, Fungicide and Rodenticide Act.

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). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Demson Fuller, Product Manager 32  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

Date:

3/18/20

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Bromochloro-5,5-dimethylhydantoin GDCI-006315-11606

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 89110-34.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 10/28/2019

If you have any questions, please contact Wanda Henson by phone at (703) 308-6345 or via email at [henson.wanda@epa.gov](mailto:henson.wanda@epa.gov)

Sincerely,



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

**ACCEPTED**  
03/18/2020  
Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 89110-34

# BIONIX BCD98

**BROMO-CHLORO-DIMETHYLHYDANTOIN**

[A MICROBIOCIDAL [BACTERICIDE], [FUNGICIDE], [ALGAECIDE] [AND] [SLIMICIDE] [FOR TREATING] [INDUSTRIAL RECIRCULATING COOLING WATER] [AND] [ONCE-THROUGH COOLING WATER] [SYSTEMS], [AIR CONDITIONER CONDENSATE], [AND] [PULP & PAPER MILL WATER SYSTEMS for bacterial slime (only)].

**Active Ingredient:**

Bromochloro-5,5-dimethylhydantoin .....98.0%

**Other Ingredients:** .....2.0%

**Total:** .....100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER  
CORROSIVE AND STRONG OXIDIZER**

<b>FIRST AID</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 min.</li> <li>• Remove contact lenses, if present, after first 5 min. then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center, or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering life or property involving this product, please call INFOTRAC: (800)-535-5053.</p>	
<p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

**SEE [BACK] [SIDE] PANEL[S] FOR ADDITIONAL PRECAUTIONARY STATEMENTS [and first aid].**

**EPA Reg. No. 89110-TBD    EPA Est. \_\_\_\_\_**

**NET CONTENTS: As Marked on Container**

**Manufactured for:  
ISOMERIC INDUSTRIES  
3400 Research Forest Drive, Suite B4,  
The Woodlands, TX 77381  
1-833-BIONIX**

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Isomeric Industries  
Label Version (1) October 28, 2019  
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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**

**CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. EYE CONTACT MAY CAUSE LOSS OF VISION. HARMFUL IF INHALED. IRRITATING TO NOSE AND THROAT. HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED.**

Avoid breathing dust or spray mist. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles with side-shields, face shield, or safety glasses; protective clothing and chemical-resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use.

**GENERAL PRECAUTIONS AND RESTRICTIONS**

USE WITH ADEQUATE VENTILATION. Do not smoke, drink, or eat when handling. Do not ship with foods, feeds, drugs, or clothing. Keep container tightly closed when not in use.

**ENVIRONMENTAL HAZARDS**

[For containers having a capacity less than 50 lbs.]

[This product is toxic to fish and aquatic organisms.]

[For containers having a capacity greater than or equal to 50 lbs.]

[This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. 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.]

**PHYSICAL OR CHEMICAL HAZARDS**

STRONG OXIDIZING AGENT. Do not mix with other chemicals. Mix with water only. Reaction with combustible organic materials, bases, moisture or with oxidizers may generate heat, hazardous gases and, possibly, fire or explosion. Do not add to dispensers or other equipment that is not dry and clean of any chemical remnants. Does not burn, but will decompose, from about 320°F (160°C), releasing toxic gases. Avoid comminution and dusting.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label and use strictly in accordance with precautionary statements and directions.

**INDUSTRIAL RECIRCULATING COOLING WATER SYSTEMS**

Used effectively at treatments to achieve exposures to one part per million (ppm) of active residual bromine to control algal, bacterial and fungal slimes in industrial cooling towers; influent water systems, e.g. flow-through filters, and lagoons, etc.; heat-exchange water systems; industrial water scrubbing systems; brewery and canning pasteurizers and industrial air-washing systems equipped with a mist eliminator.

**TREATMENT RATES:**

Initial treatment: When noticeably fouled, add 2-6 lbs of this product per 10,000 gallons of water contained in the system. Repeat initial treatment until one ppm of active residual bromine is established for at least 4 hours.

Subsequent treatment: When microbial control is evident, add 1-3 lbs of this product per 10,000 gallons of water contained in the system. Repeat as needed to maintain one ppm of active residual bromine for at least 4 hours.

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[Information in brackets [ ] is optional or instructional]

## **ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS**

Used for the control of algal, bacterial and fungal slimes, by adding to the system inlet, or before any other contaminated area in the system, in once-through and closed-cycle fresh and sea water cooling systems; cooling ponds; canals; and lagoons.

### **TREATMENT RATES:**

Initial treatment: When noticeably fouled, add 2-6 lbs of this product per 10,000 gallons of water contained in the system. Repeat initial treatment until one ppm of active residual bromine is established for at least 4 hours.

Subsequent treatment: When microbial control is evident, add 1-3 lbs of this product per 10,000 gallons of water contained in the system. Repeat as needed to maintain one ppm of active residual bromine for at least 4 hours.

## **ORNAMENTAL FOUNTAINS**

See treatment rates for industrial recirculating cooling water systems.

## **AIR CONDITIONER CONDENSATE**

Place tablet in condensate line dispenser. Check once every six months or as required. The life of the tablet will vary depending upon atmospheric conditions and indoor air temperature requirements.

## **PULP AND PAPER MILL WATER SYSTEMS**

This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products that do not 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.

### Treatment by system volume:

When a system is noticeably fouled: add 0.098 to 0.98 pounds (or 12 to 120 ppm) of this product to 1,000 gallons of water in the system. When biological control is evident: add 0.098 to 0.74 pounds (or 12 to 90 ppm) of this product to 1,000 gallons of water in the system.

### Treatment by residual method:

Add sufficient product to maintain a measured residual up to 5 ppm as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 ppm as bromine.

An alternative method of calculating the appropriate level of this product is to estimate the paper mill's daily production, then add, over a 24-hour period, up to 588 grams (1.27 pounds) of this product per dry ton of paper produced over a 24-hour period. Test for bromine to verify the level of 5 ppm is not being exceeded.

## **STORAGE AND DISPOSAL**

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

### **PESTICIDE STORAGE:**

Store in a dark, cool (below 86°F/30°C), dry, well-ventilated area, in well-closed original containers, away from energy sources, combustible organic materials, oxidizers, strong bases and moisture.

### **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 HANDLING:**

[For FIBER DRUM with liner:

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Nonrefillable 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: 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

[For 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 remaining contents into application equipment of mix tank. Fill the container ¼ 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.]

**SPILLS**

When handling or dealing with spills, use goggles with side-shields, or face shield; protective clothing, including chemical-resistant gloves and boots, use a dust respirator if dusting occurs. Sweep up dry spills and dispose of as described for pesticide disposal. If drum contents are contaminated or decomposing, do not reseal container; isolate unsealed drum in the open or in a well-ventilated area; flood with large volumes of water if necessary.

**IN CASE OF FIRE:**

Do not use ammonium phosphate extinguisher near water and this product. Hazardous reactions may occur.

**WARRANTIES AND WARRANTY DISCLAIMERS**

**Conditions of Sale:** Isomeric Industries (“ISOMERIC”) warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to ISOMERIC. To the extent consistent with applicable law, ISOMERIC DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. To the extent consistent with applicable law, ISOMERIC SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, and ISOMERIC’s sole liability and Buyer’s and User’s exclusive remedy shall be limited to the refund of the purchase price. BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. ISOMERIC DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.