



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

EPA Reg. Number:

89110-31

Date of Issuance:

1/10/2020

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Bionix TT5

Name and Address of Registrant (include ZIP Code):

Abigail Wacek  
 Consultant for  
 Isomeric Industries Inc.  
 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:

*E. Miederhoff*

Eric Miederhoff  
 Product Manager 31, Regulatory Management Branch I  
 Antimicrobials Division (7510P)  
 Office of Pesticide Programs

Date:

1/10/2020

2. are required to comply with the data requirements described in the DCI identified below:
  - a. TTPC GDCI-128824-1317

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. 89110-31.”
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 08/21/2019

If you have any questions, please contact Tara Flint via email at [flint.tara@epa.gov](mailto:flint.tara@epa.gov) or Eric Miederhoff at [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov).

Enclosure

**ACCEPTED**

01/10/2020

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 89110-31

# BIONIX TT5

For use as an algicide, bactericide, fungicide, for the control of algae, slime forming bacteria, sulfate reducing bacteria, and fungi in air-washers and industrial air scrubbing systems, recirculating cooling water and process water systems including cooling towers, evaporative coolers, brewery pasteurizers, can warmers, and hydrostatic sterilizers and retorts, non-food contact paper and paperboard process water (e.g.: brown paper, corrugated sheet, Kraft paper, newsprint, etc.), enhanced oil recovery systems, oil and gas production and transmission pipelines and systems, gas storage wells and systems, hydrotesting of pipelines and tanks, pipeline pigging and scraping operations and oil and gas well drilling and maintenance fluids. FOR INDUSTRIAL APPLICATION. This product must be loaded and transferred only using a metering-pump system. Open pouring is prohibited.

**Active Ingredient:**

Tributyl tetradecyl phosphonium chloride .....5.0%

**Other Ingredients:** .....95.0%

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

**KEEP OUT OF REACH FROM CHILDREN**

## DANGER

FIRST AID	
<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 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, 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 treatment advice</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call 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 a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
In case of emergency, 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.	
<b>Note to physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

EPA Reg. No. 89110-GR EPA Est. \_\_\_\_\_ NET CONTENTS: As Marked on Container

[See back/side panels for additional Precautionary Statements]

In case of emergency, call INFOTRAC: (800)-535-5053

**Manufactured by:**

**ISOMERIC INDUSTRIES**

3400 Research Forest Drive, Suite B4,

The Woodlands, TX 77381

678-665-4275

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Isomeric Industries

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## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER. CORROSIVE.** Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. May be irritating to nose and throat. Do not get in eyes, on skin or on clothing. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, chemical resistant gloves and protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not mix with other chemicals. Mix only with 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.

### 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. This product must be loaded and transferred only using a metering-pump system. Open pumping is prohibited.

This product must be loaded and transferred only using a metering-pump system or a close loading/application system. Open pouring is prohibited. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, chemical resistant gloves and protective eyewear.

### RECIRCULATING COOLING AND PROCESS WATER SYSTEMS / AIR WASHERS AND INDUSTRIAL AIR SCRUBBING SYSTEMS:

#### DOSAGE RATES FOR ABOVE APPLICATIONS.

**Initial Dose:** When the system is noticeably fouled, add 26 to 77 fluid ounces of this product per 1,000 gallons (200 to 600 milliliters/1,000 liters) of water contained in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 13 to 38 fluid ounces of this product per 1,000 gallons (100 to 300 milliliters/1000 liters) of water contained in the system. Repeat as needed to maintain control.

Heavily fouled systems must be cleaned before treatment is begun.

When used as directed, this product effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, heat exchange water systems, evaporative coolers, dairy sweetwater systems, industrial process water systems, brewery pasteurizers, can warmers, hydrostatic sterilizers and retorts, air washing systems equipped with a mist eliminator, and industrial air scrubbing systems. Add this product at a point of uniform mixing such as the basin area.

**[DAIRY SWEETWATER SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA.]**

**[BREWERY PASTEURIZERS, CAN WARMERS, HYDROSTATIC STERILIZERS OR RETORTS ARE NOT REGISTERED FOR USE IN CALIFORNIA]**

**[AIR-WASHER OR AIR SCRUBBER SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]**

**PULP, PAPER, AND PAPERBOARD MILLS:  
DOSAGE RATES.**

**Initial Dose:** When the system is noticeably fouled, add 5 to 30 pounds of this product per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems must be cleaned before initial treatment.

**Subsequent Dose:** When biological control is evident, add 3 to 20 pounds of product per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

**THIS PRODUCT IS ONLY FOR USE IN NON-FOOD APPLICATION**, such as Brown Paper Mills, Sheet for Corrugated Board, Kraft Paper, Newsprint and similar paper / paperboard not intended for food contact uses. When used as directed this product effectively controls bacterial and fungal slimes in pulp, paper, and paperboard mill process water systems including white water systems. Treat water at critical areas in the system where mixing of the product will be uniform such as beaters, furnish chest, white- water tank, save-all, and broke chest. The frequency and duration of the treatment will depend upon the severity of the problem.

**ENHANCED OIL RECOVERY SYSTEMS:  
DOSAGE RATES FOR ENHANCED OIL RECOVERY SYSTEMS.**

When the system is noticeably fouled, or to maintain control in the system, add 4.2 to 420 gallons of product per 1,000 barrels of water as a slug dose for 1-8 hours per day, 1-4 times per week.

**NOT FOR USE IN ESTUARINE OR MARINE OIL RECOVERY SYSTEMS.** When used as directed this product effectively controls slime-forming and sulfate-reducing bacteria in injection and produced water systems, water disposal systems, and other oilfield water systems. Treat water at critical points in the system such as water or oil storage tanks, surge tanks, oil-water separators, before or after injection pumps, and injection well headers.

**OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**

This product must be added at a point in the pipeline where uniform mixing will occur. The application must be conducted to ensure maximum distribution of the product through the entire internal surface of the pipeline. Follow dosing instructions for enhanced oil recovery systems.

**GAS STORAGE WELLS AND SYSTEMS**

Individual injection wells must be treated with a sufficient quantity of product to produce a concentration of 100-10,000 ppm of product when diluted by the water present in the formation. Injections must be repeated as needed to maintain control.

Individual drips must be treated with a sufficient quantity of product to produce a concentration of 100-10,000 ppm of product when diluted by the water present in the drips. Injections must be repeated as needed to maintain control.

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[Information in brackets [ ] is optional or instructional]

**HYDROTESTING**

Water used to hydrotest pipelines or vessels must contain 100-10,000 ppm of product, depending on water quality and length of time the equipment will remain idle.

**PIPELINE PIGGING AND SCRAPING OPERATIONS**

Add the product to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient product must be added to produce a concentration of 100-10,000 ppm of product in the water at the discharge point or pig trap depending on the length of the pipeline and the severity of biofouling.

**DRILLING, PACKER, COMPLETION, WORKOVER AND FRACTURING FLUIDS**

The product must be added to these fluids at a point where uniform mixing will occur. Add 100-10,000 ppm of product to a freshly prepared fluid depending on the severity of the contamination.

**FIRE PROTECTION SYSTEMS**

This product is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems.

This product must be added to a fire protection system using a chemical metering pump capable of variable pump rates. The product must be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 100-600 ppm of product (5-30 ppm active ingredient) depending on severity of microbial contamination in the system. Repeat as needed.

**[FIRE PROTECTION SYSTEMS ARE NOT REGISTERED FOR USE IN CALIFORNIA.]**

## 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

[Nonrefillable container. Do not reuse or refill this container.]

[For containers  $\geq$  5 gallons:

Triple rinse container or equivalent promptly after emptying. Triple rinse as follows. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[For containers  $\leq$  5 gallons:

Triple rinse container or equivalent promptly after emptying. Triple rinse as follows. Fill the container  $\frac{1}{4}$  full with water and recap. 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 back and forth several times. Turn the container over onto its other end and tip back and forth several times. Follow Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[Refillable containers:

Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.]

## 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, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT, or for damages in the nature of penalties, and the buyer and user waive any right that they may have to such damages. ISOMERIC's sole liability and Buyer's and User's exclusive remedy shall be limited to the refund of the purchase price. ISOMERIC DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

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