



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

EPA Reg. Number:

89110-28

Date of Issuance:

10/29/19

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Bionix ZP48

Name and Address of Registrant (include ZIP Code):

Abigail Wacek  
 Senior Regulatory Consultant for  
 Isomeric Industries  
 3400 Research Forest Drive, Suite B4  
 The Woodlands, TX 77380

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:

Zeno Bain, Product Manager 33  
 Regulatory Management Branch I  
 Antimicrobials Division (7510P)  
 Office of Pesticide Programs

Date:

10/29/19

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Zinc pyrethione GDCI-088002-1483, -37923

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. 89110-28.”
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 06/06/2019

If you have any questions, please contact Tara Flint via email at [flint.tara@epa.gov](mailto:flint.tara@epa.gov) or Zeno Bain at [bain.zeno@epa.gov](mailto:bain.zeno@epa.gov).

Enclosure

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

## BIONIX ZP48

Active Ingredient:  
 Zinc Pyrithione (Zinc, 2-pyridinethiol-1-oxide):.....48.0%  
 Other Ingredients:.....52.0%  
 Total:.....100.0%



KEEP OUT OF REACH OF CHILDREN

### DANGER

<b>FIRST AID</b>	
If in eyes	<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>
If swallowed	<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>
If on skin or clothing	<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>
If inhaled	<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>NOTE TO PHYSICIAN</b>	
<p><b>Probable mucosal damage may contraindicate the use of gastric lavage.</b> Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information 24 hours a day, seven days a week.</p>	

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



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## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Avoid breathing vapor. Do not get in eyes, on skin, or on clothing. Users must wear protective eyewear (goggles), long sleeved shirt and long pants, socks, chemical resistant gloves and chemical resistant footwear. Users must wear a fit tested, NIOSH approved full face respirator equipped with a combination organic vapor/P-100 prefilter. When mixing and loading, or cleaning equipment, wear a chemical resistant apron. Wash thoroughly with soap and water after handling, and before eating, chewing gum, drinking, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals..

### **CHEMICAL HAZARDS:**

Do not store or mix with strong oxidizing agents or strong (concentrated) acids. In case of contamination, do not reseal container. If possible, isolate container in an open or well-ventilated area. Fumes caused by contamination may be hazardous.

### **ENVIRONMENTAL HAZARDS:**

*{For end-use products in containers less than 5 gallons (liquid) or less than 50 pounds (solid, dry weight)}*

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

*{For end-use products in containers greater than or equal to 5 gallons (liquid) or great than or equal to 50 pounds (solid, dry weight)}*

[This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans, or public water 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 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 a manner inconsistent with its labeling. Read the entire label and use strictly in accordance with precautionary statements and directions.

Overview: A minimum cost-effective use level recommendation can only be established through testing of a specific formulation intended for use in a specific application. Formulations vary in their composition and as a result, of their susceptibility to microbial attack. Conditions of use and the performance expectations differ from product to product. For example, a warranted high performance preserved product that is under consideration for use in severe tropical environments, is likely to need a high application rate of biocide. Testing at biocide use levels would be recommended at 3000, 4000 and 5000 ppm. As the product adds cost to the formulation and as performance requirements need to be met, laboratory and field tests are conducted to establish the antimicrobial performance of this product. An unwarranted preserved product that is not intended for use in severe environments would likely need a lower application rate. Formulation type, performance requirements, and cost considerations dictate the concentrations of this product to be used.

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**[TEXTILES**

**[NOT APPROVED FOR THIS USE IN THE STATE OF CALIFORNIA]**

This product controls the growth of odor-causing microorganisms on textiles made of synthetic fibers, such as polyester and blends. Use this product in the following applications such that the finished product contains 0.14 to 0.71% by weight of this product.

The following are examples of products (substrates) suitable for finishing with this product. Textiles such as: Wearing apparel – for example, work-wear, uniforms, sportswear, slacks, shirts, underwear, sweatshirts, sweatpants, socks, oven mitts, slippers, bathrobes, gloves, hats, scarves, jackets, incontinence pad cover stock, washable incontinence briefs and panties.

Household products, for example, upholstery, curtains, wall coverings, mops, dishcloths, yarns, cords, toweling and blankets, sheets, and pillowcases.

Synthetic fiber wipes, tissues, sponges (non-food contact). Automotive, boat, train and airplane seats and seat coverings.]

**[DRY FILM PRESERVATION:**

**THIS PRODUCT PROTECTS THE APPLIED DRY FILM ITSELF AND DOES NOT PROTECT THE UNDERLYING SURFACE FROM ATTACK BY ALGAE OR BACTERIA.]**

**[For the Dry Film Preservation of Flooring Adhesives, Caulks, Sealants, Grouts and Patching Compounds:**

**Flooring and Other Non-Food Contact Adhesives:** For fungal control, add 1,500 ppm of this product and for bacterial control, add 4,800 ppm. (Add 1.5 lbs. of this product to 1,000 lbs. of adhesive to control fungi and add 4.8 lbs. per 1,000 lbs. of adhesive to control bacteria.)

**Caulks/Sealants:** For fungal control, add 4,100 ppm of this product and for bacterial control, add 10,000 ppm of this product. (Add 4.1 lbs. of this product per 1,000 lbs. of caulk/sealant to control fungi. Add 10.0 lbs. of this product to control bacteria.)

**Grouts/Patching Compounds:** For fungal control, add 2,000 ppm of this product and for bacterial control. Add 8,000 ppm of this product. (Add 2.0 lb. of this product to 1,000 lbs. of grouts/patching compounds to control fungi and 8.0 lbs. of this product to control bacteria.)]

**[For the Dry Film Preservation of Architectural and Industrial Non-Marine Paints, Foams and Coatings, including Powder coatings:**

**[NOT APPROVED FOR THIS USE IN THE STATE OF CALIFORNIA]**

Addition of 2,000 ppm up to 10,000 ppm of this product inhibits the growth of algae, bacterial slime, mildew, and other fungi. It can be added at any time during the formulation process. For example, the dry film of a house paint having a density of 10 lbs. per gallon can be protected against the growth of algae, bacterial slime, mildew, and other fungi by the addition of 10,000 ppm of this product. (Add 2.0 to 10.0 lbs. of this product to 100 gallons of wet paint.)]



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**[For the Dry Film Preservation of Residential Paints Against Fungi or Algae:  
[NOT APPROVED FOR THIS USE IN THE STATE OF CALIFORNIA]**

Use a minimum of 5,000 ppm of this product. For maximum protection against the growth of fungi or algae, use 10,000 ppm of this product. For control of bacterial growth on the dry paint film surface, use 2,500 ppm of this product. (Add a minimum of 5.0 lbs. of this product to 100 gallons of wet paint, with a density of 10 lbs. per gallon, to control fungi or algae. Add a maximum of 10.0 lbs. of this product to 100 gallons.)]

**[For the Dry Film Preservation of Joint Compounds, Glazing Compounds and Wood Fillers:  
[NOT APPROVED FOR THIS USE IN THE STATE OF CALIFORNIA]**

Addition of 2,000 ppm up to 10,000 ppm (2.0 lbs. to 10.0 lbs. of this product per 1,000 lbs. of formulation) of this product inhibits microbial growth (bacteria and fungi) in the dry film of these products. This product can be added at any time during the formulation process.]

**[For the Control of Mildew and Bacteria In Styrene Butadiene and Natural Rubber, Thermoplastic Resins, and Textiles Used In the Manufacture of the Following Non-Food/Non-Medical**

**Products:** Rubber bands, Carpet Fibers; Carpet Backings; Rubber or Rubber Backed Bath Mats; Foam Underlay For Carpets; Synthetic, Non-Leather Materials; Foam Stuffing for Cushions and Mattresses; Wire and Cable Insulation; Vinyl, Linoleum and Synthetic Floor Coverings; Wall Coverings; Plastic Furniture; Athletic Flooring and Mats; Mattress Liners, Covers or Ticking; Molding; Mats; Gaskets; Weather Stripping; Coated Fabrics For Furniture Cushions, Boat Covers, Sails, Tents; Tarpaulins; Awnings; Non-Surgical Rubber Gloves; Garbage Bags, Refuse Containers; Bathtub Appliques; Garden Hose; Non-Potable Water Pipe; Ductwork, air filters, air filtration components and air filtration media for industrial, hospital, residential, and commercial heating and cooling; conveyor belts; Shower Curtains; Sponge or Fiber Mops; Household Use Sponges; Toilet Brush Receptacles, Toothbrush Receptacles (Non Bristle Contact); Non-Medical Scrub Brushes; Sink Mats and Drain Boards; Storage Containers; Soap Dish Holders; Towel Bars, Components of Footwear, Toilet Seats, Hair Brushes and Hair Brush Bristles.

Addition of 2,000ppm up to 8,000 ppm (2.0 lbs. up to 8.0 lbs./1000 lbs. of formulation) of this product can inhibit the growth of mildew & bacteria in styrene butadiene rubber, natural rubber, synthetic rubbers and elastomers, EPDM, textiles & thermoplastic resins such as vinyl chloride-vinyl acetate copolymers, polyurethanes, polyamides, polyolefins, polystyrene, polyesters and acrylonitrile copolymers. It can be added at a time during the formulation procedure that will insure uniform distribution throughout the system. Add by pouring or by use of metering equipment. For example, to inhibit mildew growth in polyurethane footwear components, add 2,000 ppm (2 lbs./1000 lbs. of formulation) of this product to the polyurethane formulation.]

**[For the In-Can Preservation of Latex Emulsions, Clay, Mineral, Pigment and Guar Gum Slurries Used in the Manufacture of Adhesives, Caulks, Patching Compounds, Sealants and Grouts:  
[NOT APPROVED FOR THIS USE IN THE STATE OF CALIFORNIA]**

A dosage of 2,000 ppm up to 10,000 ppm is recommended to control bacteria and fungi. This dosage is equivalent to 2.0 lbs. to 10.0 lbs. of this product per 1,000 lbs. of slurry. It may be added at any time during the formulation procedure.]

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**[To Inhibit the Growth of Bacteria and Fungi In Dry Wall and Gypsum, Pearlite, Plaster-Like, Mineral Based, or Cellulose Derived Building Materials Used In the Manufacture of Ceilings, Ceiling Tile, Walls and Partitions:**

**[NOT APPROVED FOR THIS USE IN THE STATE OF CALIFORNIA]**

Addition of 2,000 ppm up to 8,000 ppm of this product (2.0 lbs to 8.0 lbs. of product per 1000 lbs. of the formulation, i.e., wet slurry) inhibits the growth of bacterial and fungi. It can be added at any time during the formulation process. Alternatively, the product may be added to latex or other types of coating systems routinely applied to the surfaces of walls, ceiling tiles, partitions, etc. at the same rate as above.]

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep container tightly closed when not in use. Do not store above 130°F. Do not store with strong oxidizing agents or strong (concentrated) acids.

**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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

*[For containers less than 50 lbs]* Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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.

*[For containers greater than or equal to 50 lbs]* Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 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.

**[WARRANTIES AND WARRANTY DISCLAIMERS**

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**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.]

**Produced for:**

Isomeric Industries  
3400 Research Forest Drive, Suite B4  
The Woodlands, TX 77381  
{For DOMESTIC labels only:}[Tel: xxx-xxx-xxxx]  
{For INTERNATIONAL labels only:}[Tel: xxx-xxx-xxxx]

EPA Reg. No.: 89110-TBD  
EPA Est. No.: \_\_\_\_\_  
[Material][Label] No. \_\_\_\_\_  
NET CONTENTS: \_\_\_\_\_ [lbs.][kg.]  
[Batch][Lot] No. \_\_\_\_\_