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

NOTICE OF PESTICIDE:
_X_ Registration
___ Reregistration
(under FIFRA, as amended)

EPA Reg. Number:	**Date of Issuance:**
89110-20	8/16/18

Term of Issuance:
Conditional

Name of Pesticide Product:
BIONIX TP 75

Name and Address of Registrant (include ZIP Code):

ISOMERIC Industries
361 17th Street NW #1224
Atlanta, GA 30363

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:

John Hebert, Chief
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Date:
8/17/18

EPA Form 8570-6

2. Be aware that proposed data requirements have been identified in a Work Plan. For more information on these proposed data requirements, 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. 89110-20."

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 March 26, 2018

If you have any questions, please contact Zebora Johnson by phone at (703) 308-7080, or via email at johnson.zebora@epa.gov.

Enclosure: Accepted Label

ACCEPTED
08/16/2018
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 89110-20

BIONIX TP75

INDUSTRIAL ANTIMICROBIAL

Active Ingredient:
Tetrakis(hydroxymethyl) phosphonium sulfate…..…….. 75.0%
Other Ingredients: 25.0%
Total: 100.0%

EPA Reg. No. 89110-TBD **EPA Est.**_____ **NET CONTENTS:** As Marked on Container

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 swallowed:	• Call a 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 for advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

GENERAL INFORMATION: Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency and general information on product use, etc., information pertaining to this product, call the National Pesticides Information Center at 1-800858-7378 (NPIC web site: www.npic.orst.edu). For emergencies, call the poison control center 1-800222-1222.

[See side panels for additional Precautionary Statements]
In case of emergency, call INFOTRAC: (800)-535-5053

Manufactured for:
ISOMERIC INDUSTRIES
361 17TH Street NW #1224
Atlanta, GA 30363 678-665-4275

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE: Causes irreversible eye damage. Fatal if swallowed or adsorbed through skin or harmful is inhaled. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, or safety glasses. Wear coveralls over long-sleeved shirts and long pants, socks, chemical - resistant foot-wear and 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 cloths before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS:

This product is toxic to fish. 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 a manner inconsistent with its labeling.

OILFIELD AND PETROCHEMICAL OPERATIONS *[Not for use in California]*

BIONIX® TP75 is effective in controlling sulfate reducing bacteria, general aerobic bacteria, including microorganisms that contribute to biofilm formation In oil field recovery, processing and distribution applications and supporting systems; such as injection water, water holding tanks, disposal well water, recirculating water handling systems, and pipelines: BIONIX® TP75 has been shown to dissolve iron sulfide and sequester iron when used under these conditions, leading to improved filter life and well injectivity, and reduction of hydrocarbon sheen. BIONIX® TP75 is also effective for use in controlling microbial growth in fluids used for drilling and stimulation of oil wells.

WATER FLOODS *[Not for use in California]*

BIONIX® TP75 should be added to a water flood system at a point where uniform mixing will occur.
Initial Treatment: For a noticeably fouled system, add 93-350 ppm BIONIX® TP75 (70-262.5 ppm THPS). When added to a flowing system, slug dose for 2-6 hours based on flow rates. Repeat as necessary until control is achieved.
Subsequent Treatment: Once control has been achieved, add 7.5-98 ppm BIONIX® TP75 (5 – 73.5 ppm) weekly or as needed to maintain control. When added to a flowing system, slug dose for 2-6 hours based on flow rates.
Continuous Treatment: BIONIX® TP75 can be dosed continuously at a level of 7-67 ppm (5 -50 ppm).

HYDRAULIC FRACTURING *[Not for use in California]*

BIONIX® TP75 should be added to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole. Add 66.7-350 ppm of BIONIX® TP75 (50-262.5 ppm THPS), depending on the degree of bacterial fouling in the

source water.

OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS
[Not for use in California]
BIONIX® TP75 should be added at a point in the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum distribution of BIONIX® TP75 through the entire internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline. Criteria for success of the treatment will be reduction in bacterial count and/or corrosion rates.
Slug Dosing: Follow instructions for water flood treatment.
Continuous Dosing: BIONIX® TP75 can be dosed continuously at a level of 14-100 ppm (10.5-75 ppm THPS).

DRILLING MUDS, PACKER FLUIDS, COMPLETION AND WORKOVER FLUIDS
[Not for use in California]
BIONIX® TP75 should be added to these fluids at a point where uniform mixing will occur. Add 33-1400 ppm of BIONIX® TP75 (24.5-1050 ppm THPS) to a freshly prepared fluid depending on severity of contamination.

GAS STORAGE WELL AND SYSTEMS
[Not for use in California]
Individual wells should be treated with BIONIX® TP75 at the same application rates, and in the same manner as described under Water Floods. Injections should be repeated as needed to maintain control. Individual drips should be treated with a sufficient quantity of BIONIX® TP75 to produce a concentration of 33.3-133.3 ppm BIONIX® TP75 (25-100 ppm THPS) when diluted by the water present in the drip. Injections should be repeated as needed to maintain control.

WELL REMEDIATION OPERATIONS
[Not for use in California]
Individual production or injection wells may be bullheaded with BIONIX® TP75 to control bacteria and simultaneously dissolve iron sulfide deposits. The BIONIX® TP75 will be pumped into the well as a solution in water containing from 13.3% to 40% BIONIX® TP75 (10%-30% THPS). The well is shut-in for a period of time (at least 6 hours) then put back into operation.

HYDROTESTING
[Not for use in California]
Water used to hydro test pipelines or vessels should contain 66.6-666.5 ppm BIONIX® TP75 (50-500 ppm THPS), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATION
[Not for use in California]
Add BIONIX® TP75 to a slug of water immediately following the scraper (idea this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient BIONIX® TP75 should be added to produce a concentration of 0.007% to 0.07% (50-500 ppm THPS) in the water at the discharge point or pig trap, depending on the length of the pipeline and the severity of the biofouling.

INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER SYSTEMS
[Not for use in California]
Note: For cooling water systems of equal to or greater than 4000 gallons, do not apply by open pouring of liquid to cooling water systems; a metering pump delivery system is required for this use and application method.
For control of bacteria, fungi and algae:
Initial Slug Dose: Add 53.3 – 350 ppm of BIONIX® TP75 (40-262.5 ppm THPS) based on total water volume. Repeat until control is obtained. Thereafter, add either intermittently 35- 140 ppm of BIONIX® TP75 (26-105 ppm THPS) or **continuously** 18.66-65 ppm of BIONIX® TP75 (14-49 ppm THPS) per day. Dirty systems must be cleaned prior to treatment.

INDUSTRIAL FRESH WATER SYSTEMS
[Not for use in California]
BIONIX® TP75 is effective in controlling algae in holding ponds and in controlling bacteria and fungi in holding and processing tanks of industrial fresh water systems supplying water to pulp and paper mills, textile mills, and other manufacturing plants. In pulp and paper mills, treatment of the fresh water with BIONIX® TP75 can make an important contribution to slime control. The use of BIONIX® TP75 as described will reduce the development of slime in fresh water pipes and other equipment, and on the pulp and paper mill machine parts contacted by fresh water. If water is used in the manufacture of paper and paperboard products that may contact food, the concentration of THPS in the slurry cannot exceed 84 ppm.

For the control of algae in industrial fresh water systems, BIONIX® TP75 should be added to provide a concentration of 1.33-13.33 ppm of product (1-10 ppm of THPS). Treatment should be based on the amount of water entering a pond or reservoir or leaving the pond or reservoir and entering the immediate processing operations. While treatment can be made continuously, regular slug-dosing treatment will provide adequate control.

INDUSTRIAL WASTEWATER SYSTEMS
Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks
[Not for use in California]
BIONIX® TP75 should be added to a wastewater system or sludge at a convenient point of uniform mixing such as digester.
Slug Dosing: Add 53.3 – 350 ppm of BIONIX® TP75 (40-262.5 ppm THPS) Water Treatment per 1,000 gal of wastewater or sludge.
Continuous Dosing: Add 1.3-26.6 ppm of BIONIX® TP75 (1-20 ppm THPS) per 1,000 gallons of wastewater or sludge.

MACRO FOULING CONTROL
[Not for use in California]
BIONIX® TP75 should be added continuously to maintain a level of 20 ppm active ingredient (THPS) in the system for a period of at least 96 hours.
Initial Dose: When macrofouling is present in the system, apply 26-66 ppm of BIONIX® TP75 (20ppm THPS) based on total water volume.
Continue to add BIONIX® TP75 as needed to maintain the 20ppm active ingredient (THPS) level for a period of at least 96 hours.

SERVICE WATER AND AUXILIARY SYSTEMS
[Not for use in California]
BIONIX® TP75 should be added to service water and auxiliary systems at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

HEAT TRANSFER SYSTEMS
(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, Brewery and Other Pasteurizers, and Warmers)
Add BIONIX® TP75 at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

AIR WASHER SYSTEMS (For control of bacteria and fungi) ***[Not for use in California]***
This product may be used only in air washer systems which have mist eliminating components.
Pre-clean the system with detergent and allow air washer to run with fan on for two hours. Flush and check nozzles, manually cleaning as necessary. Add 35 – 93.3 ppm of BIONIX® TP75 (26-70 ppm THPS) at a point where uniform mixing and even distribution will occur. Repeat as needed to maintain control.

PAPER AND PAPERBOARD MANUFACTURING
For use as a slimicide in the manufacture of paper and paperboard products and adhesives that do not contact food.
Dosing: Additions should be made at a point in the system where mixing action is good, e.g. raw stock chest beater or mixing unit. Add intermittently or continuously depending on mill conditions.
Intermittent Dosing: Add 32.66 – 466.55 (24.5-350 ppm THPS) ppm of BIONIX® TP75 based on total water volume or an equivalent based on dry weight of paper produced.
Continuous Dosing: Add 18.66 – 65.3 ppm of BIONIX® TP75 (14-49 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced.

COATINGS, PIGMENTS AND FILLER SLURRIES
[Not for use in California]
For use as a preservative to retard microbial growth in water-based coatings, starches, pigments and filler slurries. The treatment rate necessary to retard spoilage of the additive will vary with the extent of contamination of make-up water and the length of storage. Dosing: Apply from 233.33-666.5 ppm of BIONIX® TP75 (175 -500 ppm) to the additive to be preserved based on the total weight of the additive and water.

SOLUTIONS I EMULSIONS
Not for use in **manufacture of paper and paperboard products and adhesives that may come in contact with food.**
For the preservation of solutions, emulsions, adhesives and other aqueous liquid products, the addition of 0.0233%-0.233% of BIONIX® TP75 (0.0175%-0.175% THPS). Add at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. The exact

amount of BIONIX® TP75 to be added for the preservation of given formulations will depend on the components as well as local storage time and requirements.

***FIRE PROTECTION* SYSTEMS**
[Not for use in California]
BIONIX® TP75 is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems. Such microbial growth when combined with other forms of corrosion can lead to accelerated corrosion rates and pitting corrosion, commonly referred to as microbiologically influenced corrosion. BIONIX® TP75 also helps to remove free oxygen from the water, thus eliminating an important nutrient for bacteria and an important reactant in many corrosion reactions.

BIONIX® TP75 should be added to a fire protection system using a chemical metering pump capable of variable pump rates. BIONIX® TP75 should be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 100-400 ppm BIONIX® TP75 (75-300 ppm THPS) depending on severity of microbial contamination in the system. Repeat as needed.

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

STORAGE: Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of a spill, flood the area with large quantities of water.

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:
Option to use for labels on nonrefillable rigid containers of all sizes
Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) 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.

Option to use for labels on refillable rigid tote containers
Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning of 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 container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available, or puncture and dispose of in sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.