



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

EPA Reg. Number:

91681-1

Date of Issuance:

5/22/17

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Aionx Technology

Name and Address of Registrant (include ZIP Code):

Aionix Antimicrobial Technologies, Inc.  
50 N. Linden Road, Box 426  
Hershey, PA 17033

**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)

Date:

5/22/17

2. You are required to comply with the data requirements described in the DCI identified below:

a. Silver GDCI-072501-1129

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. 91681-1.”

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 12/2/2016

If you have any questions, you may contact Aline Heffernan at 703-347-8602 or via email at [heffernan.aline@epa.gov](mailto:heffernan.aline@epa.gov).

Enclosure: Stamped Label  
Acute Toxicity Review (dated 03/17/2017)  
Product Chemistry Review (dated 05/17/2017)

{Note to reviewer: [Brackets] designate optional usage of a word/phrase within the brackets.  
(Parentheses) designate mandatory usage of a word/phrase within the parentheses.}

# AIONX TECHNOLOGY

**AIONX Technology is an antimicrobial ink that effectively inhibits the growth of bacteria, fungi, algae, mold, and mildew that cause unpleasant odors, discoloration, staining, deterioration or corrosion on surfaces to which it is applied. It is intended for use in the manufacture of commercial and consumer products to impart antimicrobial properties.**

## Active Ingredients

Copper..... 44.65%

Silver..... 19.18%

**Other Ingredients..... 36.17%**

**Total..... 100.00%**

**KEEP OUT OF REACH OF 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. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

[See back/side panel for Precautionary Statements]

[See exterior packaging for Precautionary Statement/First Aid/Directions for Use/ and/or Storage and Disposal]

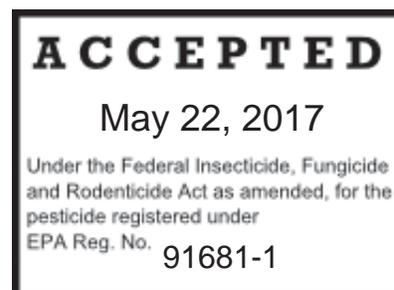
**EPA Reg. No:** 91681-TBD

**EPA Est. No.:** XXXXX-XX-XXX

## Manufactured By/For:

Aionx Antimicrobial Technologies, Inc.  
50 N. Linden Road, Box 426  
Hershey, PA 17033

## Net Contents:



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## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

Danger. Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. 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 reuse.

{For products  $\leq$  5 gallons}

#### **Environmental Hazards**

This pesticide is toxic to fish and aquatic invertebrates.

{For products  $>$  5 gallons}

#### **Environmental Hazards**

This pesticide is toxic to fish and aquatic invertebrates. 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 EPA.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

The AIONX Technology is an antimicrobial agent intended for application to the use sites of products listed below during and after manufacture thereof to impart antimicrobial properties to such products. The AIONX Technology may be applied to the exterior of or incorporated into a use site at a typical rate of 1 gram per 16 square inch to effectively inhibit the growth of bacteria, fungi, algae, mold, and mildew that cause unpleasant odors, discoloration, staining, deterioration or corrosion on the surface(s) to which it is applied or incorporated. Contact the seller for recommended application, configuration, and activation for individual finished products.

No product treated with the AIONX Technology may make any public health claims relating to antimicrobial activity without first obtaining an EPA registration for the product which permits such claims. No claim is made that the AIONX Technology protects users of any products listed below against food borne or disease causing bacteria, viruses, germs or other disease causing organisms. This product is for nonfood contact use.

The AIONX Technology is activated on the finished product by passing through the technology an electrical current of up to 1 milliamperere.

#### *Proper Use and Care.*

A use site incorporating the AIONX Technology may change color during use, going from a metallic appearance to a duller, blackened look. This change is a natural consequence of the oxidation of the AIONX Technology and indicates proper performance. Contact the seller for more information about incorporation of the AIONX Technology into a finished product and for information on use and care of the power source.

Clean and sanitize the use site according to standard practice. Healthcare facilities must maintain sites in accordance with infection control guidelines. The use of AIONX Technology at

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a use site is a supplement to and not a substitute for standard infection control practices; users must continue to follow all current infection control practices, including those practices related to cleaning and disinfection of environmental surfaces.

**Do not wax, paint, lacquer, varnish, or otherwise coat this product.**

Medical:

**USE SITES**

- Ambulance
- Ambulatory Surgery Centers
- Anesthesia Rooms/Areas
- Assisted Living Facilities
- [Blood] and/or [plasma] and/or [semen] and/or [milk] and/or [apheresis] Donation Centers
- CAT Lab[s -or- oratories]
- Central Service Areas
- Central Supply Rooms / Areas
- Chiropractic Offices / Facilities
- Critical Care Units (CCUs)
- Dental/Dentist's Offices
- Dental Operatories
- Dialysis Clinics
- Emergency Rooms (ERs)
- [Emergency Medical] Transport Vehicles
- [Full Care] Nursing Homes
- Geriatric Care Facilities
- Health Care Settings / Facilities / Centers
- Home Health Care [Settings]
- Hospices
- [Hospital] Kitchens (non-food contact)
- Hospitals
- Intensive Care Units (ICUs)
- Isolation Areas
- Laboratories
- Medical and/or Dental and/or Chiropractic Clinics
- Medical Facilities
- Medical Nursing Homes
- Medical and/or Physician's and/or Doctor's Offices
- Neonatal Intensive Care Units (NICU) / (NICUs)
- Newborn / Neonatal Nurseries
- Nursing / Nurses' Stations
- Ophthalmic Office
- Orthopedics Clinics / Offices
- Outpatient Clinics
- Outpatient Surgical Centers (OPSC)
- Patient Care Areas
- Patient Restrooms
- Patient Rooms
- [Pediatric] Examination Rooms / Areas
- Pediatric Intensive Care Units (PICU)
- Pharmacies
- Physicians Offices
- Physical Therapy Rooms/Areas
- Radiology / X-Ray Rooms/Areas
- Recovery Rooms
- Rehabilitation Rooms / Areas / Centers / Clinics
- Residential Treatment Centers
- Respiratory Therapy Rooms/Areas
- Surgery / Operating Rooms (ORs)
- Surgical Centers
- Urgent Care Centers

**SURFACES**

- Alcohol-based sanitizer dispenser
- Bedding
- Bed pans
- Bedside pitcher
- Bedside table
- Bed rails
- Beds
- Bed surface
- Behind and under sinks
- Blood pressure monitors
- Buttons / Knobs / Dials
- Cabinet handles
- Cabinets
- Carts
- Chairs
- Chemotherapy hoods
- Closet handles
- Computer keyboards

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- Computer mouse(s)
- Computer / Data entry touchscreens
- Containers
- Counters
- Covers [for high touch surfaces]
- CPR equipment surfaces<sup>a</sup>
- Curtains
- Defibrillation equipment surfaces<sup>a</sup>
- Dental countertops
- Dental operatory surfaces
- Dentist / dental chairs
- Desk tops
- Devices
- Dialysis machines / equipment<sup>a</sup>
- Dictation devices
- Doorknobs
- Door push plates
- Equipment<sup>a</sup>
- Exam / examination tables
- Exercise / rehabilitation / physical therapy equipment
- Exterior surfaces of air hand dryer
- Exterior surfaces of air vents / air vent exteriors
- External surfaces of medical equipment / [medical] equipment surfaces<sup>a</sup>
- Footboards
- Glucometers / blood glucose monitors<sup>a</sup>
- Gowns
- Gurneys
- Handrails
- Hard dental surfaces
- Hard, nonporous hospital / medical surfaces
- Headboards
- Healthcare worker clothing and/or gowns and/or booties
- High touch surfaces<sup>a</sup>
- Holders of paper towels and/or facial tissues and/or toilet paper
- Hospital / patient bed railings and/or linings and/or frames
- linner / inside of drawers
- IV stands and/or poles and/or tubing and/or pump<sup>a</sup>
- Light lens covers
- Light switches / light switch plates
- Linens
- Linen hampers
- Machines<sup>a</sup>
- Mattresses and mattress covers
- Mayo [instrument] stands
- Monitor(s) [and cables]
- Nurse-call device / button / and cord]
- Otoscopes<sup>a</sup>
- Over-bed table
- Oxygen delivery system surfaces<sup>a</sup>
- Pans
- Patient chairs
- Phone cradle
- Pillows
- Pipes
- Plastic mattress covers
- Rags
- Reception counters and/or desks and/or areas
- Reflex hammers
- Sequential compression devices<sup>a</sup>
- Shelving
- Shower fixtures
- Showers
- Sill(s) and/or ledge(s)
- Sinks
- Soap dispenser
- Suctioning system surfaces<sup>a</sup>
- Stands
- Stethoscopes
- Stretchers
- Support bars
- Tables
- Telephones
- Thermometers<sup>a</sup>
- Thermostats
- Towels
- Trash can / receptacle
- Trays
- Tube feed pump<sup>a</sup>
- Tubing<sup>a</sup>
- Tubs -or- tanks
- TV remote(s) / control(s)
- Ultrasound transducers [and probes]<sup>a</sup>
- Ventilation system surfaces<sup>a</sup>
- Walkers
- Wash basins
- Water fountains (push bar/button)
- Wheelchairs

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- X-ray machine surfaces<sup>a</sup>

<sup>a</sup> Use intended only for exterior surfaces that are not introduced directly into the human body (either into or in contact with the bloodstream or normally sterile areas of the body) and do not contact mucous membranes.

Veterinary:

**USE SITES**

- Animal Housing Facilities
- Animal Life Science Laboratories
- Animal / Pet Grooming Facilities
- Equine Farms
- Farms
- Kennels
- Livestock and/or Swine and/or Poultry Facilities
- Pet Areas
- Pet Shops / Stores
- Small Animal Facilities
- Veterinary Clinics / Facilities
- Veterinary Offices
- Veterinary / Animal Hospitals

**SURFACES**

- Animal equipment
- Automatic feeders
- Cages
- External surfaces of [veterinary] equipment
- Feed racks
- Fountains
- Hard veterinary surfaces
- Pens
- Reception counters and/or desks and/or areas
- Stalls
- Troughs
- Veterinary care surfaces
- Watering appliances

Food Service (non-food contact surfaces only):

**USE SITES**

- Bars
- Cafeterias
- Commercial / Institutional Kitchens
- Delis
- Fast Food Chains / Restaurants
- Food Preparation and Processing Areas
- Food Service / Processing Establishments
- Food Serving Areas
- Other Food Service Establishments
- Restaurants
- School Kitchens

**SURFACES**

- Any washable non-food contact surface where protection of the surface is desired
- External surfaces of appliances, microwaves, ovens, freezers, refrigerators
- Hoods
- Outdoor furniture (excluding wood frames and upholstery)
- Salad bar sneeze guards
- Stoves / stovetops

Miscellaneous/General:

**USE SITES**

- Acute Care Facilities
- Airplanes
- Blood Banks
- Bowling Alleys
- Butcher Shops
- Churches
- Colleges
- Correctional Facilities

- Day Care Centers
- Dormitories
- Factories
- Funeral Homes
- Grocery Stores
- Gymnasiums / Gyms
- Health Club Facilities
- Homes

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- Hotels
- Industrial Facilities
- Laundromats
- Laundry Rooms
- Locker Rooms
- Long Term Care Facilities
- Manufacturing Plants / Facilities
- Military Installations
- Motels
- Nursing Homes
- Produce Areas
- Public Areas
- Recreational Centers / Facilities
- Restrooms / Restroom Areas
- School Buses
- Schools
- Shelters
- Shower Rooms
- Storage Rooms / Areas
- Supermarkets
- Trains
- Universities

### **SURFACES**

- [Bathroom] fixtures
- [Bath]tubs
- Behind and under counters
- Behind and under sinks
- Booster chairs
- Cabinets
- Ceilings / ceiling coverings
- Cell[ular] / wireless / mobile(s) / digital phones
- Chairs
- Computer keyboards and/or monitors
- Counters / countertops
- Covers
- Cribs
- Desks
- Diaper / infant changing tables
- Diaper pails
- Dictating equipment / surfaces
- Doorknobs
- Door pulls
- Door push plates
- Exterior / external toilet surfaces
- Exterior / external urinal surfaces
- Faucets
- Floors / flooring
- Garbage / trash cans
- Grocery store / supermarket carts
- Hampers
- Hand railings
- Headsets
- Highchairs
- Lamps
- Lights / lighting [products]
- Linoleum
- Other telecommunications equipment [surfaces]
- Playpens
- Shelves
- Showers / shower stalls
- Sinks
- Soap dispenser
- Stall doors
- Tables
- Telephones
- Tile(d) walls
- Toilet rims
- Toilet seats
- Towel dispensers
- Toys
- Vanity tops / vanities
- Walls / wall coverings
- Window locks and/or knobs and/or cranks and/or pulls

### **SURFACES MATERIALS** (non-food contact only)

- [Baked] enamel
- Chrome
- [Common] hard, nonporous surfaces
- Formica
- Glass
- Glazed ceramic [tile]
- Glazed porcelain
- Laminated surfaces
- Marlite
- Plastic [lamine]
- Porcelain enamel
- Stainless steel

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- Synthetic marble
- Vinyl [tile]
- Similar hard, nonporous surfaces except for those excluded by the label

### [Optional Label Claims]

- ((Antimicrobial (agent / ink / material) / ([Product Name])) added to the exterior (surface(s) of ([use site]) effectively (inhibits / reduces / resists / suppresses / protects against) (accumulation of / contamination by / growth of) (microorganisms / bacteria / algae / mold / mildew / [and] fungi) that [can] cause (unpleasant odors / discoloration / staining / deterioration / [and/or] corrosion).
- ((Antimicrobial (agent / ink / material) / ([Product Name])) added to the exterior (surface / surfaces) of ([use site]) effectively (inhibits / reduces / resists / suppresses / protects against) odor and stain causing (bacteria / fungi / algae / mold / [and] mildew).
- ([Use site]) (is treated with / are treated with / contains) (an antimicrobial (agent / ink / material) / ([Product Name])) that (inhibits / reduces / resists / suppresses / protects against) (accumulation of / contamination by / growth of) [common] (microorganisms / bacteria / fungi / algae / mold / and mildew) that [can] cause (unpleasant odors / discoloration / staining / deterioration / [and/or] corrosion).
- ([Use Site]) contain(s) (an antimicrobial (agent / ink / material) / ([Product Name])) to protect the surface.
- For (hospital / institutional / industrial / residential) use
- ((An antimicrobial (agent / ink / material) / ([Product Name])) has been incorporated into ([use site]) at a suitable stage of the manufacturing process to impart antimicrobial activity to the site to suppress the growth of (microorganisms / bacteria / algae / mold / mildew / [and] fungi) that [can] cause (unpleasant odors / discoloration / staining / deterioration / [and/or] corrosion).

### **STORAGE AND DISPOSAL**

#### **Do not contaminate water, food, or feed by storage or disposal**

**Storage:** Do not store in areas accessible to children. Keep product dry and containers covered during storage; store below 130°F.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Prior to container disposal, allow any remaining ink residue in the container to air dry. Dispose of the container in accordance with Federal, State, or local disposal regulations.

### **DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY**

Seller warrants that the AIONX Technology complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Seller's liability or default, breach or failure under this label will be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller will have no liability for consequential, special, or incidental damages resulting from the use or handling of the AIONX Technology.