



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 28, 2023

Jonathan Walsh, Regulatory Consultant  
Agent for Isomeric Industries  
c/o Technology Sciences Group Inc.  
1150 18th Street, NW, Suite 1000  
Washington, D.C. 20036  
E-Mail: [jonathan.walsh@tsgconsulting.com](mailto:jonathan.walsh@tsgconsulting.com)

Subject: Label Amendment – typographical correction to ingredient statement  
Product Name: BIONIX GA2512  
EPA Registration Number: 89110-24  
Received Date: 11/8/2019  
Action Case Number: 00220790

Dear Jonathan Walsh:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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 FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). 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) lists 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, FIFRA section 12(a)(1)(B). 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

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EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact me via email at [garvie.heather@epa.gov](mailto:garvie.heather@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Heather A. Garvie".

Heather A. Garvie  
Senior Regulatory Advisor  
Regulatory Management Branch 2  
Antimicrobials Division  
Office of Pesticide Programs

Enclosure

# BIONIX GA 2512

## INDUSTRIAL ANTIMICROBIAL

**ACCEPTED**

02/28/2023

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 89110-24

### Active Ingredient:

Glutaraldehyde.....	25.25%
Didecyl dimethyl ammonium chloride.....	7.59%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride.....	5.06%
<b>Other Ingredients:</b> .....	62.1%
<b>Total:</b> .....	100.0%

EPA Reg. No. 89110-24

EPA Est. \_\_\_\_\_

NET CONTENTS: As Marked on Container

**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.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</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></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><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><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></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.	

[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

## PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, absorbed through the skin or inhaled. Do not get in eyes, on skin or clothing. Avoid breathing spray mist. Wear goggles or face shield, chemical resistant gloves (such as Barrier Laminate, Butyl nitrile/Neoprene Rubber, PVC, or Viton >14 mils), long-sleeve shirt, long pants, shoes, socks and chemical-resistant apron when handling. 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.

{SPANISH ADVISORY STATEMENTS}

*{Note to Reviewer: This statement is optional except when used on labels with agricultural uses.}*

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

If you do not understand the label, find someone to explain it to you in detail.

### ENVIRONMENTAL HAZARDS:

*(If container is  $\geq$  than 5 gal., the following statement must appear on the label.)*

This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, ponds, streams, 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.

*(If container is < 5 gal., use the following as an alternate to the above statement.)*

This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

### DIRECTIONS FOR USE

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

**Read these entire Directions for Use before using BIONIX GA2512.**

### **AIR WASHERS, INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS, RETORT WATER SYSTEMS, EVAORATIVE CONDENSERS, HEAT EXCHANGE, TRANSFER WATER SYSTEMS, DAIRY SWEETWATER SYSTEMS, HYDROSTATIC STERILIZERS, PASTEURIZERS AND WARMERS: [Not for use in California]**

For best results, clean heavily contaminated systems before treatment with this product. Is soap or anionic detergent is used rinse thoroughly before charging with this algacide. Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages. Repeat every seven days or increase frequency if needed. Should slime develop again, repeat initial dosage.

1. **Dosing Location:** This product is to be applied at a point in the system where it will be uniformly mixed, such as the basin area, the sump, or another reservoir or collecting area.
2. **Dosing Condition:** This product must be applied when the system is in jeopardy of being affected or after cleaning systems where efficiency is already impaired. (Tower bleed off valves must be closed to permit a retention time of 4 hours)
3. **Method of Application:**
  - a. **INTERMITTENT OR SLUG METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 17 – 34 oz. of this product per 1,000 gal. of water (50 – 100ppm active) in the system. Repeat until is achieved.

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Isomeric Industries

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**Subsequent Dose:** When microbial control is evident, add 7 – 17 oz. of this product per 1,000 gal. of water (20 – 50 ppm active) in the system weekly or as needed to maintain control.

**b. CONTINUOUS FEED METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 17 – 834 oz. of this product per 1,000 gal. of water (50 – 100ppm active) in the system.

**Subsequent Dose:** Maintain this treatment by starting a continuous feed of 4 – 17 oz. of this product per 1,000 gal. of water (10 -50ppm active) lost by blowdown.

**AUXILIARY SYSTEMS AND SERVICE WATER: [Not for use in California]**

Add 17 – 34 oz. of this product per 1,000 gal. of water (50 – 100 ppm active) in the system continuously. This product must be added to the system at a point of uniform mixing by slug or intermittent feed or by spraying onto a waster pile. The frequency of feed or spray and the duration of treatment will depend upon the severity of the contamination. Additions to water systems must be made during the pumping operation and as close to the pump as possible to ensure adequate mixing.

**INDUSTRIAL WASTEWATER SYSTEMS (WASTEWATER SYSTEMS, WASTERWATER SLUDGE AND WASTEWATER HOLDING TANKS: [Not for use in California]**

This product is added to a wastewater system or sludge at a convenient point of uniform mixing such as digester. Add 85 – 420 oz. of this product per 1,000 gal. of wastewater sludge (250-1250ppm active).

**OIL FIELD, GAS PRODUCTION, TRANSMISION PIPELINE AND SYSTEMS: [Not for use in California]**

Specific treatment requirements vary among oil and/or gas field sites and subsystem components. Oil field fluids and subsystems most commonly requiring microbial contamination control are raw water sources, separators, ballasts, storage and mixing tanks, screens, surface injection equipment, product equipment, such as injection and product piping casting, completion and valving and the formation itself. The primary point of treatment will vary among oil and/or gas field operations depending on the site problems, water-flood treatment methods and equipment. This product must be added where it will disperse rapidly and uniformly to the desired area of treatment.

Additions of this product must be made with the proper type of metering pump equipment, suction (low pressure) side of pumping equipment or similar device. This product must be added to the system by slug, continuous or on an intermittent basis, depending on the degree of system fouling.

**OIL FIELD WATER FLOOD SYSTEMS AND FRACTURING FLUIDS: [Not for use in California]**

This product must be added to the water flood at a point of uniform mixing:

- 1. Continuous Use:** Add 1.3 – 65 gal. of this product per 10,00 gal. of flood water (50-2500 ppm active) to control slime forming and sulfate reducing bacteria. Levels for effective control will vary depending on conditions at the site.
- 2. Intermittent Use:** Add at a rate of 1.3 – 65 gal. of this product per 10,000 gal. of flood water (50 – 2500 ppm active) for 4 to 8 hrs. per day, one to four times a week as needed to maintain control.
- 3. Treatment of flow back return water:** Post Hydraulic Fracturing, dose at a rate of 1.3 – 65 gal. of this product per 10,000 gal. of flood water of water (50 – 2500 ppm active) for 4 – 8 hrs. per day, one to four times a week as needed to maintain control.

**FRACTURING/FAC FLUIDS: [Not for use in California]**

Add this product to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.

**Dose Range:** Add 1.3 – 65 gal. of this product per 10,000 gal. of flood water (50 – 2500 ppm active) to control slime forming and sulfate reducing bacteria. Levels for effective control will vary depending on conditions at the site.

**OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINE AND SYSTEMS: *[Not for use in California]***

For the control of sulfate-reducing bacteria and slime forming bacteria, this product must be added to a gas production or transmission pipeline via direct injection at a point where uniform and maximum distribution will occur. The application must be conducted to ensure maximum distribution of the product through the 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. To facilitate application, it is desirable to dilute the product with the treatment will be reduction in bacterial count and/or corrosion rates. To facilitate application, it is desirable to dilute the product with an appropriate solvent immediately before use. The concentration in the solvent must not fall below an active concentration range of 500 – 5000ppm active based on the volume of water in the pipeline. Injections to the system must be weekly, or as needed to maintain control

**GAS STORAGE WELLS AND SYSTEMS: *[Not for use in California]***

Treat individual injection wells with 0.65 – 6.5 gal. of this product per 1,000 gal. of water (250 – 2500 ppm active). Update treatment rate as needed. This product must be diluted by the water present in the formation. Injection takes place before gas is injected and may be repeated yearly or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of this product to produce a concentration of 100 – 1000 ppm active of this product when diluted by the water present in the drip. Injections should be repeated yearly or as needed to maintain control.

**PIPELINE PIGGING AND SCRAPING OPERATIONS: *[Not for use in California]***

Add this product to slug water immediately following the scraper, keep the water volume to a minimum and contained between the scraper and the following trailing pig. Add an effective concentration of 0.13 – 1.31 gal. of product per 1,000 gal. of water (500 -5000 ppm active) depending on the length of the pipeline and the severity of the biofouling.

**DRILLING, COMPLETION AND WORKOVER FLUIDS SYSTEMS: *[Not for use in California]***

This product is to be added to these fluid systems at a point of uniform mixing, such as a circulating, holding or mud tank. Levels for effective control will vary depending on conditions at the site and the severity of the contamination.

1. **Initial treatment:** Add 0.6 – 13 gal. of this product per 1,000 gal. of freshly prepared fluid (25 – 500ppm active)
2. **Maintenance dosage:** Add 0.6 – 13 gal. of this product per 1,000 gal. of freshly prepared fluid (25 – 500ppm active).

**PACKER FLUIDS: *[Not for use in California]***

This product is to be added to the packer fluid at a point of uniform mixing such as a circulating holding tank and other mixing device locations. Add 0.6 – 8 gal. of this product per 10,000 gal. of freshly prepared packer fluid (25 – 300ppm active). Levels for effective control vary depending on conditions at the site and the severity of contamination. Seal the treated packer fluid in the wall between the casing and the product tube.

**HYDROTESTING: *[Not for use in California]***

Treat water used to hydrotest pipelines or vessels by adding 0.3 – 5 gal. of this product per 1,000 gal. of water (50 – 2000ppm active) depending on the water quality and length of time the equipment will remain idle.

**PULP AND PAPER MILLS: *[Not for use in California]***

Do not use to treat paper or paperboard which will contact food.

## SLIMICIDE APPLICATIONS:

1. **Initial dose:** When system is noticeably contaminated, add 0.5 to 53 gal. of this product per 100,000 gal. of whitewater (1- 200ppm active) to be treated as a continuous of slug dose. Repeat until control is achieved. Heavily fouled systems must be boiled out prior to initial treatment.
2. **Subsequent dose:** When microbial control is evident, add 0.5 to 53 gal. of this product per 100,000 gal. of whitewater (1 – 200ppm active) to be treated as necessary to maintain control.

## WATER BASED COATING, PIGMENTS AND FILLER SLURRIES FOR PULP AND PAPERBOARD:

Application of this product must be made at a point in the system where mixing action is good or can be made at the size press or water box. Apply at a rate of 0.13 – 0.79 lbs. of this product per 1,000 lbs. of dry powder or 0.065 to 0.393 kg of this product per metric ton of dry slurry to produce a concentration of 130.9 to 785.3 ppm active as product (based on slurry solids) in the mixed slurry.

### STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE

Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

#### 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 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.