

December 1, 2000

David C. Rose  
Bioxy Incorporated  
3733 National Drive, Suite 115  
Raleigh, North Carolina 27612

Subject: Letter of June 28, 2000  
Aquatize  
EPA Reg. No. 64449-1

Dear Mr. Rose:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments below. A stamped copy is enclosed for your records. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

We reviewed the data in response to your claim that the data was fully acceptable. We do agree that it is unnecessary for you to conduct field tests to support this use. However, we still maintain that the contact time needs to be increased to 10 minutes in order for the product to be effective as a disinfectant against *Salmonella enteritidis* and to 15 minutes to be effective against *Escherichia coli* 0157:H7. Therefore, you must change the phrase on the label, "Allow 5 minutes for disinfection to occur of the source water before delivery to livestock." to read "Allow 15 minutes for disinfection of the source water before delivery to livestock."

If you have any questions regarding this letter, you may call me at 703-308-6264.

Sincerely,



Robert S. Brennis  
Product Manager 32

Antimicrobial Division

CONFERENCES							
SYMBOL							
SURNAME							
DATE							



Effective chemistry for health and biosecurity.

# Aquatize®

CONCENTRATED

## WATER DISINFECTANT

Aquatize is an effective disinfectant for the drinking water of poultry, swine, cattle and other livestock.

EPA Reg. No. 064449-1  
EPA Est. No. 42463-NC-001  
US Patents 4,880,638 and 5,830,511

**Net Contents:**  
**2.5 gallons (320 ounces)**

### INGREDIENTS

<b>ACTIVE INGREDIENT:</b>	
Sodium Chlorite.....	3.67%
<b>OTHER INGREDIENTS..... 96.33%</b>	
Total.....	100.00%

Manufactured by:

**Bioxy Incorporated**  
3733 National Drive, Suite 115  
Raleigh, NC 27612-4845 USA  
tel: (919) 571-7050  
fax: (919) 571-7051

### DIRECTIONS FOR USE:

#### General Classification

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

This product is intended for use as a disinfectant for the drinking water of poultry, swine, cattle, and other livestock. Treated water is not for human consumption. This product is not intended for use in human drinking water, and treated water should not be made available for human consumption.

Under normal conditions, product should be administered at a rate of 1:5000 (1 part Aquatize in 5000 parts water). When using a proportioner (medicator) set to deliver 1 ounce of stock solution per 1 gallon of water, mix 10 ounces of Aquatize into 3 gallons of water for a stock solution. Allow 5 minutes for disinfection to occur of the source water before delivery to livestock.

When heavy bacterial contamination exists, product should be administered at a rate of 1:2000 (1 part Aquatize in 2000 parts water). When using a proportioner (medicator) set to deliver 1 ounce of stock solution per 1 gallon of water, mix 24 ounces of Aquatize into 3 gallons of water for a stock solution. Allow 5 minutes for disinfection to occur of the source water before delivery to livestock.

To ensure maximum performance, mix according to label instructions. Do not mix with compounds

other than water to avoid production of noxious gases. Once diluted, use product within 48 hours.

Aquatize should be administered continuously into the drinking water from time of placement (day one). Remove Aquatize from the drinking water 24 hours prior to vaccination and readminister 24 hours after vaccination.

Aquatize has proven effective as a water disinfectant. The tests were conducted using the AOAC test method 965.13 against the following bacteria:

- Campylobacter jejuni* (ATCC 29428)
- Escherichia coli* (ATCC 11229)
- Escherichia coli* O157:H7 (ATCC 43895) [\*]
- Listeria monocytogenes* (ATCC 7644)
- Pasteurella multocida* (ATCC 6530)
- Pseudomonas aeruginosa* (ATCC 15442) [\*]
- Salmonella enteritidis* (ATCC 13076) [\*]
- Salmonella typhimurium* (ATCC 14028)
- Shigella sonnei* (ATCC 9290)
- Streptococcus faecalis* (ATCC 19083)
- Streptococcus suis* (ATCC 43765)

[\*] 1:2000 dilution rate required for these bacteria.

**CAUTION: KEEP OUT OF REACH OF CHILDREN**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

0007 1 030  
DEC 1 2000

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

64449-1

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

DEC 1 2000

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

2/0

# Aquatize®

## CONCENTRATED WATER DISINFECTANT

**CAUTION: AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. MAY CAUSE IRRITATION.**

### STATEMENT OF PRACTICAL TREATMENT

Harmful if swallowed. In case of contact, immediately flush eyes or skin with plenty of water. If swallowed, drink large quantities of water, do not induce vomiting. Get medical attention if irritation persists.

**NOTE TO PHYSICIAN:** If swallowed, may cause severe gastric enteritis.

### ENVIRONMENTAL HAZARDS:

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.

### PHYSICAL OR CHEMICAL HAZARDS:

Do not mix with acids or other chemicals except water. Mixing with other chemicals may cause the evolution of chlorine dioxide gas, which is poisonous and explosive. Do not let spilled solution evaporate to dryness, if resultant contacts oxidizable or combustible materials the mixture is easily ignited by heat or friction. This results in a fiercely burning fire, or in a confined space, a possible explosion.

### STORAGE AND DISPOSAL

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

Store container in a cool, dry place. Do not expose to sunlight. Unused product should be stored in original container only, and the cap should be tightly resealed after use. For best results, product should be used within twelve months from date of purchase.

### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL:

Prior to disposal of the container, triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### SPILLS:

If container leaks or product is spilled, rinse area liberally with water and flush to a designated sewer in accordance with all applicable federal, state, and local regulations regarding spill notification requirements.

24-hr EMERGENCY CALL CHEMTREC (800) 424-9300

**ACCEPTED**  
with **COMMENTS**  
in EPA Letter Dated:

DEC 1 2000

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

64449-1