

Eileen Price
 TETRA Technologies, Inc.
 25025 I-45 N
 The Woodlands, TX 77380

Subject: Biorid 40i
 EPA Registration No. 2214-13
 Application Date: October 24, 2001
 Receipt Date: November 1, 2001

Dear Ms. Price:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

- added directions for frequency of draining, cleaning and adding fresh water to hot tubs and spas.
- addition of percent available bromine as a foot note to the ingredients statement.
- added cautionary wording regarding use of products which may alter effectiveness.
- revised precautionary "First Aid" instructions, verbatim to your letter.
- corrected typographical errors in the Directions for Use.

Conditions

Revise the label as follows:

Correct the typographical error under the *Wastewater Systems* heading to read "... when measured approximately five **minutes** after treatment".

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

General Comments

*A stamped copy of the labeling accepted with conditions is enclosed.
Submit three (3) copies of your final printed labeling before distributing or selling
the product bearing the revised labeling.*

*Should you have any questions or comments concerning this letter, please
contact Wanda Mitchell at (703) 308-6345.*

Sincerely,



*Robert S. Brennis
Product Manager - Team 32
Regulatory Management Branch II
Antimicrobials Division (7510C)*



BioRid® 40i

Sodium Bromide Solution



DIRECTIONS FOR USE

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

BioRid® 40i is used as a disinfectant, sanitizer, slimeicide, bactericide, algicide, fungicide and molluscicide in re-circulating and once-through cooling water systems, brewery/cannery and pasteurizing systems, wastewater systems, water treatment systems, food processing systems, domestic and commercial non-potable water systems, hot tubs and spas and pulp and paper mills. It is to be used in conjunction with an oxidant such as sodium hypochlorite (12.5%) or chlorine gas (99.9%) to produce hypobromous acid. BioRid® 40i may be added at system inlet water or metered into the existing sodium hypochlorite piping to form a solution of sodium hypobromite. Consult your feeder manufacturer for correct procedure and proper use of the feeder equipment.

Hot Tubs and Spas: Initial Dose: With pump running, add 3.0 oz. of BioRid® 40i per 5000 gallons of water, or as needed to achieve a bromine residual of 1.0 to 3.0 ppm when measured with a suitable test kit approximately five minutes after treatment. Maintain pH between 7.4 - 7.8.

Subsequent Dose: On a weekly basis, add sufficient BioRid® 40i to maintain a bromine residual of 1.0 to 3.0 ppm when measured with a suitable test kit. Maintenance of a bromine residual is dependent on ambient temperature, light intensity and bather load, and requires frequent checks with a suitable test kit. Maintain pH between 7.4 - 7.8. When used in conjunction with another product, always follow the label directions on that product. Avoid use of soaps, lotions or oils which might alter product effectiveness. Drain and clean every six months, or when water becomes difficult to manage.

Wastewater Systems: When used as directed, BioRid® 40i effectively disinfects wastewater effluent. The quantity of BioRid® 40i required varies with the degree of fouling. Add sufficient BioRid® 40i and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.3 ppm to 2.0 ppm when measured approximately five minutes after treatment.

Depending on the construction of the wastewater system, BioRid® 40i can be effectively added to one or more different locations in the system. Frequently, the compound is added to wastewater receiving secondary treatment at a contact tank preceding the effluent discharge or at the influent of the final clarifier.

The disinfection of sewage effluent must be evaluated by determining that the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the MPN (Millipore Nutrient) procedure, of the disinfected effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

Re-circulating Cooling Water Systems including Air Washers and Pasteurizing Systems: When used as directed, BioRid® 40i effectively controls bacteria, fungi, algae, slimes, related odors and the growth and settlement of mollusks such as zebra mussels (Dreissena) and Asiatic Clams (Corbicula) in commercial and industrial cooling towers, heat exchange systems, industrial scrubbing systems, brewery/cannery and pasteurizing systems, evaporative condenser water systems, air wash water systems, food processing water systems, pulp and paper mills, and domestic and commercial non-potable water systems.

Industrial Once-Through Cooling Water Systems: When used as directed, BioRid® 40i effectively controls bacteria, fungi, algae, slimes, related odors and the growth and settlement of mollusks such as the zebra mussel (Dreissena) and Asiatic Clams (Corbicula) in re-circulating and once-through fresh and sea water cooling systems. Apply BioRid® 40i and chlorine or sodium hypochlorite to the system inlet water or before any other contaminated area in the system.

Doseage Rate: Initial Dose: When the system is noticeably fouled, apply sufficient BioRid® 40i and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 2.0 ppm or as needed to maintain control. A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.8 to 7.6 lbs. of chlorine gas (99.9%) or 1.5 to 6.2 gallons sodium hypochlorite (12.5%) for each gallon of BioRid® 40i.

Subsequent Dose: When microbial control is evident, apply sufficient BioRid® 40i and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 1.0 ppm or as needed to maintain control. A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.8 to 7.6 lbs. of chlorine gas (99.9%) or 1.5 to 6.2 gallons sodium hypochlorite (12.5%) for each gallon of BioRid® 40i.

This product may be added to the system either continuously, intermittently, or as needed. The frequency of feeding and duration of the treatment will depend on the severity of the problem. It is recommended that this product always be used in a manner such that effluent discharges meet NPDES guidelines.

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This product 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 the EPA.

PHYSICAL AND CHEMICAL HAZARDS

BioRid® 40i is not flammable. Avoid contact with strong oxidizers (other than sodium hypochlorite and chlorine), acids, alkaloidal and heavy metal salts.

STORAGE AND DISPOSAL

Storage: Store drums in a well ventilated, dry area. Product should be stored at 50°F or above.

Disposal: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Triple rinse container (or equivalent), then offer for recycle, reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. Burn only if allowed, and if burned, stay out of smoke.

NFPA RATINGS:

HEALTH = 0, FIRE = 0, REACTIVITY = 0

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 17 2002

Registered with the Federal Insecticide,
Fungicide, and Rodenticide Act as
a disinfectant, for the pesticide
classification under EPA Reg. No. 2214-13

TETRA Technologies, Inc. • 25025 I-45 North • The Woodlands, TX 77380 • (281) 367-1983

FOR USE AS A DISINFECTANT, SANITIZER,
SLIMEICIDE, BACTERICIDE, ALGAEICIDE,
FUNGICIDE, AND MOLLUSCICIDE IN WATER
TREATMENT APPLICATIONS.

ACTIVE INGREDIENT:

Sodium Bromide..... 40.0%

INERT INGREDIENTS..... 60.0%

¹ Contains 31% available bromine

BioRid® 40i is a water based, non-flammable product

KEEP OUT OF REACH OF CHILDREN

CAUTION

Prolonged eye and skin contact may cause severe irritation.

STATEMENT OF PRACTICAL TREATMENT

For contact with eyes: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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 swallowed: Call a poison control center or doctor immediately for treatment advice. Sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

In case of emergency endangering life or property involving this product, please call 1 (800) 424-9300, CHEMTREC (24 Hour Emergency Response).

EPA Registration Number 2214-13

EPA Establishment Number 464-MI-003

Net contents _____ lbs.

See Side Panels for Additional Precautionary Statements

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