

1448-428

04/23/2010

1/6

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



Office of Pesticide Programs

Buckman Laboratories, Inc.
256 N. McLean Blvd.
Memphis, TN 38108

APR 23 2010

Attention: Carl F. Watson, Ph.D.

Subject: GBCH
EPA Registration No. 1448-428
Amendment Dated March 16, 2010

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

Proposed Amendment

- To Revise Storage and Disposal Section per PR Notice 2007-4

General Comment

A stamped copy of the "accepted" label is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely

A handwritten signature in black ink that reads "M Swindell".

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Enclosure

GBCH
with COMMENTS
EPA Letter Dated:
APR 23 2010

Buckman

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

ACTIVE INGREDIENT(S):	1-Bromo-3-chloro-5,5,-dimethylhydantoin	96.0%
INERT INGREDIENTS:		4.0%
TOTAL		100.00%

1448-428

**KEEP OUT OF REACH OF CHILDREN
DANGER**

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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 further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. You may also contact 901-767-2722 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin or clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wear protective clothing and rubber gloves when handling this product. Avoid breathing dust and fumes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PHYSICAL OR CHEMICAL HAZARDS: STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. When using automatic feeding devices, always follow manufacturer's directions as to the proper addition of sanitizer product to brominators. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start

GBCH

Buckman

3/6

a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. 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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep product dry and store in a cool dry well-ventilated area away from heat or open flame. Store in original container.

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: (Use Super Sack, Fiber Drum, or Pail section as appropriate for container.)

SUPER SACK: Non-refillable container. Completely empty bag into application equipment. Do not reuse or refill this container. Offer for recycling, if available.

FIBER DRUM: Non-refillable container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container half full with water. 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 it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

PAIL: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container half full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

EMERGENCY HANDLING: In case of contamination or decomposition do not reseal container. If possible, isolate container in open and well-ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.

DIRECTIONS FOR USE

ACCEPTED

with COMMENTS

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

Read entire label and use strictly in accordance with precautionary statements and directions.

APR 23 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 1448-428

GBCH

Buckman

SWIMMING POOL SANITIZER: This product, when used as directed, is effective as a swimming pool water sanitizer and disinfectant.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH to between 7.2-7.6. When using other products as outlined in directions for this product, always follow directions on those products. A bromine or chlorine residual of 1-2 ppm must first be established in the pool. If the residual is established with this product in a brominator, use the brominator at the highest feed rate following manufacturer's recommendations. When the bromine residual reaches 1-2 ppm, adjust the feeder accordingly. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 1-3 ppm in residential pools and 3-5 ppm in commercial pools. Regular use of a test kit or test strips is necessary to maintain a bromine residual in the pool water.

Reentry into treated swimming pools is prohibited above levels of 8 ppm bromine due to risk of bodily injury.

SPA AND HOT TUB SANITIZER: When used as directed, this product is effective as a spa and hot tub sanitizer and disinfectant.

Ensure all spa equipment is working properly. Clean cartridge filter or backwash sand or DE filter system following manufacturer's directions. Adjust pH to between 7.2-7.6. When using other products as outlined in directions for this product, always follow directions on those products. Fill spa bromine feeder with this product and adjust feeder following manufacturer's directions to yield bromine residual between 2-4 ppm in residential spas and 4-6 ppm in commercial spas. Check feeder regularly and add additional product as needed to maintain the bromine residual. The pump and filter should be operated for at least three hours every day whether spa is used or not. [Do not heat water above 102°F. Do not heat water above spa manufacturer's recommended maximum temperature.] Keep the spa free of leaves and other debris. To maintain clear, clean water and insure the performance of your spa chemicals, spas should be drained and refilled with fresh water every 60 days in residential spas and a minimum of every 7 days in commercial spas.

Reentry into treated spas is prohibited above levels of 8 ppm bromine due to risk of bodily injury.

WATER FOUNTAIN / REFLECTING PONDS: This product, when used as directed, is effective as a water feature sanitizer and disinfectant.

Ensure all equipment is working properly. Backwash the filter system (if present) following manufacturer's directions. Adjust pH to between 7.2-7.6. When using other products as outlined for this product, always follow directions on those products. A bromine or chlorine residual of 1-2 ppm must first be established in the water. If the residual is established with this product in a brominator, use the brominator at the highest feed rate following manufacturer's recommendations. When the bromine residual reaches 1-2 ppm adjust the feeder accordingly. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 1-3 ppm. Regular use of a test kit is necessary to maintain a bromine residual in water.

RECIRCULATING COOLING WATER SYSTEMS: When used as directed, this product effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, influent water systems such as flow-through filters, cooling ponds, canals, and lagoons; heat exchange water systems; industrial water scrubbing systems; brewery pasteurizers; and industrial air washing systems equipped with a mist eliminator.

ONCE-THROUGH COOLING WATER SYSTEMS: When used as directed, this product effectively controls algal, bacterial, and fungal slimes in once-through fresh water cooling systems; cooling ponds, canals, and lagoons. Treat cooling water with this product at the system intake or other critical areas, where mixing is uniform.

ACCEPTED
WITH COMMENTS
Product at the system intake or other critical areas, where mixing is uniform.
APR 23 2010

³Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under FDB...

GBCH

Buckman

EVAPORATIVE COOLER: When used as directed, this product effectively controls algal, bacterial, and fungal slimes in evaporative coolers.

PASTEURIZER, CAN WARMER, CANNERY, RETORT WATER SYSTEMS: When used as directed, this product controls algal, bacterial, and fungal slimes in cannery cooling canal water, cannery package warmers, cannery pasteurizer water, and retort water.

DOSAGE RATES FOR ABOVE APPLICATIONS: Initial Dose: When the system is noticeably fouled, add 0.2 to 0.6 pounds/1,000 gallons (0.24 to 0.72 kilograms/10,000 liters) of water contained in the system. Repeat initial dosage until 1 to 3 parts per million (milligrams per liter) bromine residual is established for at least 4 hours. **Subsequent Dose:** When microbial control is evident, add 0.1 to 0.3 pounds/1,000 gallons (0.12 to 0.36 kilograms/10,000 liters) of water contained in the system. Repeat as needed to maintain 1 to 3 parts per million (milligrams per liter) bromine residual for at least 4 hours.

COMMERCIAL AIR CONDITIONER AND DEHUMIDIFIER BASINS OR DRIP PANS: When used as directed, this product effectively controls microbial slimes in areas where water collects.

DOSAGE RATES: Place this product in the basin or drip pan close to the outlet drain in an appropriate dispenser. Use one or more ounces as necessary to maintain the cleanliness of the system. The amount of product needed will vary with temperature, humidity, and condensate volume.

WASTEWATER TREATMENT SYSTEMS: When used as directed, this product effectively controls algal, bacterial, and fungal slimes and offers rapid disinfection fo primary, secondary, and tertiary wastewater treatment systems.

DOSAGE RATES: Add 0.1 to 0.6 pounds/1,000 gallons (0.12 to 0.72 kilograms/10,000 liters) of water treated to maintain a 0.5 to 5.0 parts per million (milligrams per liter) bromine residual at the injection point in the disinfection contact chamber. Adjust this product's dosage to achieve disinfection and minimize the halogen concentration at the exit of the contact chamber. Do not use treated wastewater to irrigate crops.

PULP AND PAPER MILLS: When used as directed, this product effectively controls algal, bacterial, and fungal slimes in pulp and paper mill fresh and sea water influent water systems; cooling water systems, wastewater treatment systems, service water systems, white water systems, and other process water. This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products. Do not exceed 1,000 grams (2.2 pounds) of this product per dry metric ton of fiber when this product is used in the manufacture of paper and paperboard that contacts food. Treat water at critical areas in the system process where mixing of the product with influent will be uniform. The frequency and duration of the treatment will depend upon the severity of the problem. Badly fouled process systems must be cleaned before initial treatment.

PRODUCT APPLICATION

TREATMENT BY SYSTEM VOLUME: When a system is noticeably fouled: add 0.1 to 1.0 pounds of this product to 1,000 gallons or 12 to 120 parts per million (milligrams per liter) of water in the system. When biological control is evident: add 0.1 to 0.75 pounds of this product to 1,000 gallons or 12 to 90 parts per million (milligrams per liter) of water in the system.

TREATMENT BY RESIDUAL METHOD: Add sufficient amount of this product to maintain a measured residual up to 5 parts per million (milligrams per liter) as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 part per million as bromine. To calculate the appropriate level of this product, estimate the paper mill's daily production, then add, over a 24-hour period, to 1,000 grams (2.2 pounds) of this product per dry metric ton of dry fiber. Test for bromine to verify the level of 5 parts per million (milligrams per liter) is not being exceeded.

ACCEPTED
with COMMENTS
EPA Letter Dated:

APR 23 2010

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

GBCH

616
Buckman

ACCEPTED
with **COMMENTS**
EPA Letter Dated:

APR 23 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. **1448-428**

Manufactured by:

Buckman Laboratories, Inc.

1256 N. McLean Blvd., Memphis, Tennessee 38108, U.S.A.

(901) 278-0330 or 1-800-282-5626

EPA Reg. No. 1448-428 EPA Est. No. 5185-MI-01

Product Weight: 7.5 lbs/gal 0.9 kg/L

NET CONTENTS MARKED ON CONTAINER

HMIS/NPCA RATING

Health 3 Flammability 1 Reactivity 1

Revised: 03/12/10