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1448-42

8/28/97

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AUG 28 1997

Dennis L. Barbee  
Buckman Laboratories, Inc.  
1256 N McLean Blvd  
Memphis, TN 38108

Dear Mr. Barbee:

Subject: Addition of potable water systems  
Busan 77  
EPA Registration No. 1448-42  
Amendment application of July 3, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), sec. 3(c)(7)(A), is acceptable provided that you:

1. Submitted and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Portia M. Jenkins  
Acting Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510W)

Enclosure

# BUSAN 77

BULAB is a registered trademark.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing.

**STATEMENT OF PRACTICAL TREATMENT (FIRST AID):** If swallowed: DO NOT INDUCE VOMITING. Rinse with copious amounts of water first. Irrigate the esophagus and dilute the stomach content by slowly giving one (1) to two (2) glasses of water. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of internal ingestion of the product seek medical assistance immediately; take individual to nearest medical facility. If in Eyes: Rinse eyes for at least 15 minutes with copious amounts of water. Seek medical attention. If on skin: Rinse with large amounts of water. If irritation occurs seek medical attention. If inhaled move person to a well ventilated place and apply artificial respiration if required. Call a physician.

**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.

**STORAGE:** Do not stack more than four drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### DIRECTIONS FOR USE

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

Busan 77 is used to control the growth of algae in swimming pools and to control algae, bacteria, fungi and mollusk in cooling water and industrial process water systems. Refer to the bulletin entitled "Busan 77-A Broad Spectrum Microbicide Concentrate" for detailed directions on process water applications.

Prior to the use of Busan 77 in water cooling towers, systems should be cleaned to remove algal growth, microbiological slime, and other deposits. Then make an initial slug addition of 0.9 to 2.2 fluid ounces of Busan 77 per 1000 gallons of water to provide 8 to 20 ppm. Busan 77 based on the total weight of water in the system. Repeat initial dosage until control is evident. Make subsequent slug additions of 0.2 to 2.2 fluid ounces of Busan 77 per 1000 gallons of water (2 to 20 ppm Busan

#### ACTIVE INGREDIENTS:

Poly[oxyethylene(dimethylamino)ethylene] . . . . . 60.0 %  
(dimethylamino)ethylene dichloride

INERT INGREDIENTS: . . . . . 40.0 %

77) every 2 to 5 days or as needed. The frequency of addition depends upon the relative amount of bleedoff and the severity of the microbiological problem. Slug additions should be made in the sump of water cooling towers. To control mollusks such as Corbicula species in recirculating or once-through cooling water and industrial systems, add Busan 77 at dosage rates of 2 to 20 ppm. Addition should be made continuously or intermittently to the intake water. Continuous addition is required for noticeably fouled systems. Intermittent feeding is used to maintain control.

Busan 77 is used to control bacteria in industrial air washing systems that maintain effective mist eliminating components. Prior to its use, systems should be cleaned to remove bacterial slime and other deposits. An initial slug dose of 3.33 to 5.55 fluid ounces of Busan 77 per 1000 gallons of water is recommended. Repeat initial dosage until control is evident. Subsequent slug additions of 2.25 to 5.55 fluid ounces of Busan 77 per 1000 gallons of water should be employed each 1 to 5 days, or as needed. The frequency of addition depends upon the relative amount of bleedoff and severity of the bacterial problem. Slug additions may be made to the sump or to the water collection trays of the airwash system.

Busan 77 is used to control the growth of algae in decorative fountains and ponds that do not contain fish. Heavy growths of algae should be manually cleaned prior to treatment. Fountains and ponds with just visible algae growth require an initial dose of 1.0 to 2.0 fluid ounces of Busan 77 per 1000 gallons of water. To treat a freshly cleaned and filled fountain, add 0.5 to 1.5 fluid ounces of Busan 77 per 1000 gallons of water. Maintenance dosages of 0.2 to 0.5 fluid ounces of Busan 77 per 1000 gallons of water should be added every 5 to 7 days as needed. Additions of Busan 77 should be made at a point to ensure uniform distribution. Busan 77 may be used in fountains and ponds treated with chlorine chemicals, but do not mix Busan 77 with concentrated dry or liquid chlorine products.

Busan 77 is used to control algae and mollusks such as *Corbicula* and *Dreissena* species in potable water treatment systems. Mitigation: Add Busan 77 to the raw water at dosage rates of 2 to 5 ppm (2 to 5 mL of Busan 77 / 1000 L water). For badly fouled systems, treatment should be continuous for up to 21 days, followed by regular control treatments. Control: To avoid fouling of potable water systems by mollusks, treat the raw water at 2 ppm for 60 minutes, repeating this treatment daily or a continuous feed of 0.5 mg/L.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
AUG 28 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 1448-42

HMIS/NPCA RATING  
Health 1 Flammability 1 Reactivity 1

Product Weight: 9.6 lbs./gal. 1.15 kg/l  
NET CONTENTS MARKED ON CONTAINER

EPA Reg. No. 1448-42

Manufactured By EPA Est. No. 1448-TN-1  
BUCKMAN LABORATORIES, INC.  
1256 N. McLEAN BLVD., MEMPHIS, TN 38108 USA  
(901) 278-0330 or 1-800-BUCKMAN