

1448-42

2-25-2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

February 25, 2003

Dennis L Barbee, Ph. D.
Buckman Laboratories, Inc.
1256 North McLean Blvd.
Memphis, TN 38108

Subject: Busan 77
EPA Registration No. 1448-42
Application Date: November 25, 2002
EPA Received Date: November 29, 2002

Dear Dr. Barbee,

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.

Proposed Amendment

- Update First Aid Statement per PR-Notice 2001-1

Conditions

Revise the label as follows:

1. Separate the Precautionary Statement heading from the First Aid Statements. In addition, the precautionary heading and its statement must be grouped together to read as follows:

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

2. The child signal word "Caution" and the Keep Out of Reach of Children" statement must be placed under the ingredient statement.

CONCURRENCES

SYMBOL	TS10C						
SURNAME	E. Berg						
DATE	2/25/03						

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit one(1) copy of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at 703-308-6422.

Sincerely,



Adam Heyward
Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510 C)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							



KEEP OUT OF REACH OF CHILDREN

CAUTION

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

FIRST AID

If in Eyes	- 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, Clothes	- Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15-20 minutes. - Call a poison control center for treatment advice.
If Ingested	- Call poison control center or doctor 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 the poison control center or doctor. - Do not give anything by mouth to an unconscious person.
If Inhaled	- 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.

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 901-278-0330 or 1-800-BUCKMAN for emergency medical treatment information.

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

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.

**ACCEPTED
with COMMENTS
EPA Letter Dated:**

FEB 25 2003

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

ACTIVE INGREDIENTS:	
Poly[oxyethylene(dimethyliminio)ethylene].....	60.0 %
(dimethyliminio)ethylene dichloride]	
INERT INGREDIENTS:	40.0 %
TOTAL	100.0%

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.
PESTICIDE STORAGE: Do not stack more than four drums high, if applicable. 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.

Manufactured by **Buckman Laboratories, Inc.**
1256 North McLean Blvd., Memphis, Tennessee 38108, USA
(901) 278-0330 or 1-800-BUCKMAN

EPA Est. No.	1448-TN-1	
EPA Reg. No.	1448-42	Net contents are marked on the container.
Product Weight	9.6 lbs./gal. 1.15 kg/L	

HMIS / NPCA Ratings			Last Revision
Health	1	Flammability	1
		Reactivity	1
			11/25/2002

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with the label directions.
BUSAN 77 is used to control the growth of algae in swimming pools, heated swimming pools, hot tubs, and spas. It is used to control algae, bacteria, fungi and mollusks in cooling water and industrial process water. It is used to control algae, bacteria, fungi and mollusks in cooling water and industrial process water. It is used to control algae, bacteria, fungi and mollusks in cooling water and industrial process water.
Industrial Fresh Water Systems: BUSAN 77 is used to control the growth of algae, bacteria and fungi in holding and processing tanks of industrial fresh water systems and other manufacturing plants. In such systems, it is employed as a replacement for chlorine compounds. In pulp and paper mills, treatment of the fresh water with BUSAN 77. The use of BUSAN 77 as described will reduce the development of slime in fresh water paper mill machine parts contacted by fresh water. However, BUSAN 77 is not for paper mill slime control since absorbents such as wood pulp rapidly absorb the product. NOTE: Do not use in paper and paperboard that will contact food.
For the control of algae, bacteria, and fungi in industrial fresh water systems, BUSAN 77 per 10,000 gallons of water to provide a concentration of 1 to 10 ppm BUSAN 77. Depend on the amount of water entering a pond or reservoir or leaving the pond or reservoir some cases, regular treatment periods of several hours each day will provide adequate control. Prior to the use of BUSAN 77 in water cooling towers, systems should be cleaned of algae deposits. Then make an initial slug addition of 0.9 to 2.2 fluid ounces of BUSAN 77 based on the total weight of water in the system. Repeat initial dosage until control is obtained. 2 fluid ounces of BUSAN 77 per 1000 gallons of water (2 to 20 ppm BUSAN 77) every 2 to 3 days upon the relative amount of bleedoff and the severity of the microbiological problem in towers.
To control mollusks such as Corbicula species in recirculating or once-through cooling towers of 2 to 20 ppm. Additions should be made continuously or intermittently to the cooled water. Intermittent feeding is used to maintain control. BUSAN 77 is used to control Dreissena species in potable water treatment systems. Mitigation: Add BUSAN 77 (1 fluid ounce of BUSAN 77 / 1000 L of water). For badly fouled systems, treatment should be repeated. Control: To avoid fouling of potable water systems by mollusks, treat the water with a daily or a continuous feed of 0.5 mg/L.
BUSAN 77 is used to control bacteria in industrial air washing systems that maintain clean air systems should be cleaned to remove bacterial slime and other deposits. An initial slug addition of 2 to 4 fluid ounces of BUSAN 77 per 10,000 gallons of water should be employed each 1 to 5 days, or as needed. Repeat dosages based on bleedoff and severity of the bacterial problem. Slug additions may be made to the system. For maximum effectiveness of BUSAN 77 in swimming pools, heated swimming pools, hot tubs, and spas, growths of algae should be cleaned prior to using BUSAN 77. For pools having growths of algae, add initially 6 to 11 fluid ounces of BUSAN 77 per 10,000 gallons of water. To maintain control, add 2 to 4 fluid ounces of BUSAN 77 per 10,000 gallons of water should be made every 2 to 3 days. Uniform distribution of BUSAN 77 throughout the water in the pool is necessary for effectiveness. Chemicals normally used to treat pools and is effective at both acid and alkaline pH. Chemicals and may reduce the amount of those chemicals normally required. However, chlorine products.
BUSAN 77 is used to control the growth of algae in decorative fountains and ponds. Fountains and ponds with just visible algae growth should be treated with 0.2 fluid ounces of BUSAN 77 per 1000 gallons of water. To treat a freshly cleaned and filled fountain, add 0.2 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 made at a point to ensure uniform distribution. BUSAN 77 should not be mixed with chlorine chemicals, but do not mix BUSAN 77 with concentrated dry or liquid chlorine products. BUSAN 77 will retard microbial growth that causes degradation of cooked starch used in the food industry to 250 ppm based on the total weight of the starch and water. The treatment rate depends on the extent of contamination of the make-up water and the length of storage. NOTE: Do not use BUSAN 77 for the inhibition of bacterial degradation of aqueous solutions. Do not use BUSAN 77 as a lubricant or coolants in the machining and processing of metals. It is recommended that cutting fluids based on amines, borates, phosphates, nitrates, etc. and also for the protection of cutting fluids with nonionic surfactants. It is not recommended, however, for use in insoluble cutting fluids. For the preservation of cutting fluids, 0.01 to 0.10% of BUSAN 77, based on the total weight of the cutting fluid. BUSAN 77 may be added to the concentrated fluids, and the amounts of BUSAN 77 to be added to the diluted cutting fluid should be repeated every four weeks. More frequent treatment of the diluted cutting fluid should be repeated every four weeks. More frequent treatment of a particular cutting fluid system occurs. The latter condition may be indicated by the appearance of the cutting fluid solution or emulsion and can be determined by bacteriological tests.