

1448-72

01/25/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

JAN 25 2012

OFFICE OF  
CHEMICAL SAFETY  
AND POLLUTION PREVENT.

Dennis L. Barbee, Ph.D.  
Associate Director Regulatory Affairs  
Buckman Laboratories, Inc.  
1256 N. McLean Blvd  
Memphis, TN 38108

Subject: **BUSAN-94**  
EPA Registration No. 1448-72  
Application Date: June 24, 2011  
Receipt Date: June 29, 2011

Dear Dr. Barbee:

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

**Proposed Amendment:**

- Update label Precautionary Statements and Use Rates
- Confidential Statement of Formula (CSF): Adding Additional Source of Product

**General Comment:**

The CSF dated January 25, 2012 is acceptable. A stamped label with conditions is enclosed for your records. Submit a 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, you may contact me by telephone at (703) 308-6416 or by e-mail at [campbell-mcfarlane.jacqueline@epa.gov](mailto:campbell-mcfarlane.jacqueline@epa.gov) or Stacey Grigsby by telephone at (703) 347-0181 or by e-mail at [mcleod.glen@epa.gov](mailto:mcleod.glen@epa.gov) during the hours of 8:00am to 4:00pm EST. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

Jacqueline McFarlane  
Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

Enclosure: EPA stamped accepted labeling



# BUSAN 94

BUSAN is a registered trademark.

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ACTIVE INGREDIENT(S)  
 2,2-Dibromo-3-nitripropionamide.....  
 INERT INGREDIENTS.....  
 TOTAL.....

**ACCEPTED**  
**JAN 25 2012**  
 Under the Federal Insecticide, Fungicide, and  
 Rodenticide Act as amended, for the  
 pesticide, registered under  
 EPA Reg. No. **1448-72**

20.0%  
 80.0%  
 100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

### 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 or doctor for treatment advice.
If Swallowed	- 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 901-767-2722 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. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes skin burns. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes, on skin, or on clothing. Wear chemical workers' goggles, rubber gloves (such as barrier laminate, butyl rubber, neoprene rubber, nitrile rubber, polyvinyl chloride {PVC and viton}), coveralls worn over long sleeved shirt and long pants, and chemical resistant footwear plus socks when handling. For mixing/loading and for cleaning equipment, wear a chemical resistant apron. Use with adequate ventilation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. 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.

### CHEMICAL AND PHYSICAL HAZARDS

Reaction with strong reducing agents may be explosive. Avoid misting.



# BUSAN 94

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## Directions for Use

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

**NOTE:** BUSAN 94 must be added separately to systems. Do not mix it with other additives; the high pH of many additive formulations will cause decomposition of BUSAN 94.

**PULP AND PAPER MILLS:** For slime control in pulp and paper mill systems, BUSAN 94 is employed at 75 to 250 g per tonne (0.15 - 0.50 lb. per ton of pulp or paper dry basis). Make continuous or intermittent additions as needed to control the growth or microorganisms. As a general rule, make intermittent treatments at the specified rates for periods of 2 to 6 hours out of each 8, each 12 or each 24 hours cycle. The concentration and frequency of treatment are adjusted according to the rate of slime accretion. Best results are obtained by feeding BUSAN 94 into the suction side of the fan pump or into the white water or stock moving to the fan pump. Clean the system thoroughly before treatment with BUSAN 94 is begun.

**COOLING WATER SYSTEMS:** BUSAN 94 is used to control the growth of algae, fungi, and bacteria in commercial and industrial recirculating cooling water systems. If the system is badly fouled, before treatment with BUSAN 94 is begun, clean the system thoroughly, drain, flush, and refill with fresh water. Then add BUSAN 94 to the water cooling tower sump, continuously or intermittently, as required to maintain control. If "shock" dosing is used, discontinue the blowdown for 24 - 48 hours after treatment.

**For Control of Fungi and Algae:** If intermittent or slug dose treatment is used, add an initial dose of 48 - 95 mL BUSAN 94 per cubic meter water (0.048 - 0.095 gal BUSAN 94 per 1000 gal water), based on the total volume of water in the system. Repeat until control is evident. Then treat the system daily, or as needed to maintain control, with 29 - 95 mL BUSAN 94 per cubic meter water (0.029 - 0.095 gal BUSAN 94 per 1000 gal water) in the system. If the continuous feed method of treatment is used, make initial dose as described above. Then treat daily, or as needed, with 29 - 95 mL BUSAN 94 per cubic meter water (0.029 - 0.095 gal BUSAN 94 per 1000 gal water) in the system by means of a chemical metering pump.

**For Control of Bacteria:** If intermittent or slug dose treatment is used, add an initial dose of 4.8 - 9.5 mL BUSAN 94 per cubic meter water (0.0048 - 0.0095 gal BUSAN 94 per 1000 gal water), based on the total volume of water in the system. Repeat until control is evident. Then treat every 4 days, or as needed to maintain control, with 2.4 - 9.5 mL BUSAN 94 per cubic meter water (0.0024 - 0.0095 gal BUSAN 94 per 1000 gal water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat continuously with 0.48 - 4.8 mL BUSAN 94 per cubic meter water (0.00048 - 0.0048 gal BUSAN 94 per 1000 gal water) based on the total volume of makeup water.

**AIR WASHER SYSTEMS:** BUSAN 94 is used to control slime-forming bacteria and fungi in industrial air-washer systems, by intermittent or continuous treatment of the water in the system. Clean the system, refill with fresh water, and treat regularly with BUSAN 94. If intermittent or slug dose treatment is employed, add an initial dose of 3 - 95 mL BUSAN 94 per cubic meter water (0.003 - 0.095 gal per 1000 gal water), based on the total volume of water in the system. Repeat until control is evident. Then treat every 2 days, or as needed to maintain control, with 1.5 - 47 mL BUSAN 94 per cubic meter water (0.0015 - 0.047 gal BUSAN 94 per 1000 gal water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat daily, or as needed, with 1.5 - 47 mL BUSAN 94 per cubic meter water (0.0015 - 0.047 gal BUSAN 94 per 1000 gal water) in the system, by means of a chemical-metering pump.

**REVERSE OSMOSIS SYSTEMS:** BUSAN 94 is used to control microbiological fouling in reverse osmosis systems use for process wastewater and other non-potable applications. Add BUSAN 94 to the membrane feedwater at a rate of 20-80 ppm (2.75-11.0 fl. oz./1000 gal.). The product should be added continuously for a time period of 1-24 hours, 1-7 days each week depending on the severity of the problem. For off-line cleaning, add BUSAN 94 to provide a level of 100-400 ppm (13.75-55 fl. oz. /1000 gal.) in the soak solution.

**INDUSTRIAL PRESERVATIVE APPLICATIONS:** BUSAN 94 is to reduce microbiological contamination in raw materials and/or products such as aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions, sizing, caulk, process water, along with specialty industrial products including inks, polishes, waxes, detergents, and cleansers. To reduce microbiological contamination, add BUSAN 94 to the material or product at a concentration of 25 to 2,000 ppm by weight. This concentration is equivalent to 2.8 to 224.0 fluid ounces BUSAN 94 per 1,000 gallons or 21.4 to 1,712.0 milliliters BUSAN 94 per 1,000 liters. The required concentration will depend on the material being treated and level of contamination present.

**DIRECTIONS FOR TREATING PUBLICLY-OWNED TREATMENT WORKS TO CONTROL COLIFORM AND OTHER BACTERIA** add BUSAN 94 at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity and contamination in the system. Make the continuous addition of BUSAN 94 with a metering pump at a point in the system where mixing will be rapid and thorough. Add BUSAN 94 to the system in a location where contact time will be 30 minutes or greater before reaching the outfall.

**TO USE AS A CO-TREATMENT WITH CHLORINE** add 0.4 - 1.5 ppm BUSAN 94 by weight of water treated. Target chlorination treatment to achieve a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level). Make the continuous addition at a point just after the initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. BUSAN 94 should be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.



# BUSAN 94

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Controls bacteria, fungi and yeasts in papermills; controls bacteria, fungi, and algae in industrial recirculating water cooling towers, fresh and sea water industrial cooling water systems, and reverse osmosis systems; controls slime-forming bacteria and fungi in air-washer systems. FOR INDUSTRIAL USE.

## Storage and Disposal

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

**PESTICIDE STORAGE:** Store in a dark, cool, dry, well-ventilated area, not above 60°C, in well-closed original containers, away from energy sources, combustible organic materials, oxidizers and moisture.

**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 HANDLING:

{Liquid residue removal statement for nonrefillable containers with capacity of 5 gals or less}

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for the later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Then offer for recycling if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

{Liquid residue removal statement for nonrefillable containers with capacity of >5 gals}

Nonrefillable container. Do not reuse or refill this container. 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 ¼ 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Then offer for recycling if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

{Text for refillable containers for containers larger than 55 gallons}

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container prior to refilling or disposal, use a pressure wash as follows: Empty the remaining contents into application equipment or a mix tank. Use a pressure wash system that rinses all interior sides with water and that is rated at >40 psi and >120°F. Pressure wash the container for a length of time that ensures that a minimum 25% of the container volume of water is used. During the pressure wash, ensure that the container valve is left open for continuous draining. Collect the rinsate and empty into application equipment or a mix tank or store rinsate for later use or disposal. Allow container to drain for 10 minutes after pressure wash is completed.

{Text for refillable containers for containers 55 gallons and smaller}

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container prior to refilling or disposal, use a triple rinse wash as follows: Empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously. Pour or pump rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this rinsing procedure two more times.

Manufactured by

**Buckman Laboratories, Inc.**

1256 North McLean Blvd., Memphis, Tennessee 38108, USA

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

EPA Est. No. 37429-GA-2

EPA Reg. No. 1448-72

Product Weight 10.4 lbs/gal 1.25 kg/L

Net contents are marked on the container.

HMIS / NPCA Ratings

Health 3 Flammability 1 Reactivity 1

Last Revision

6/24/2011