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# BUSAN® 94

LIQUID MICROBICIDE

INDUSTRIAL

Controls bacteria, fungi and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria and algae in industrial recirculating water cooling towers.

**READ THE LABEL BEFORE USING**

**REGISTRATION NO.: 17571**  
**PEST CONTROL PRODUCTS ACT**

**GUARANTEE:**

2,2-Dibromo-3-Nitrilopropionamide ..... 20%

**DANGER**



**POISON**



**CORROSIVE**

**POTENTIAL SKIN SENSITIZER**

NET CONTENTS: Litres

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**Buckman Laboratories of Canada, Ltd.**

351 Joseph-Carrier Street, Vaudreuil-Dorion (Quebec) J7V 5V5  
450-424-4404

**24-HOURS EMERGENCY TELEPHONE NUMBER:**

**1-450-424-4404**

## **DIRECTIONS FOR USE**

NOTE: Add Busan 94 Liquid Microbicide separately to the system. Do not mix with other additives in order to avoid decomposition of Busan 94 Liquid Microbicide due to the high pH of many additive formulations.

### **PAPER MILLS**

For the control of bacterial, fungal and yeast growth in pulp, paper and paperboard mills, add Busan 94 Liquid Microbicide at the rate of 60-210 mL/tonne of pulp or paper (dry basis).

Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of Busan 94 Liquid Microbicide in the mass of fiber and water such as the beaters, jordan inlet or discharge, broke chest, furnish chests, save-alls and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 60-140 mL Busan 94 Liquid Microbicide/tonne of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 140-210 mL Busan 94 Liquid Microbicide/tonne of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 60-140 mL Busan 94 Liquid Microbicide/tonne of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a cleanup of the paper machine may be advisable.

Slightly fouled systems should be treated continuously with 60-140 mL Busan 94 Liquid Microbicide/tonne of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

### **INDUSTRIAL RECIRCULATING WATER COOLING TOWERS**

This product is for recirculating water systems only. Add Busan 94 Liquid Microbicide to the basin (or any other point of uniform mixing). Addition should be made with a metering pump. It may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the retention time in the system. Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown should be discontinued for 24-48 hours.

### **FOR CONTROL OF BACTERIA**

Add 1.0-10 mL Busan 94 Liquid Microbicide /1000 L of water in the system, depending on the severity of contamination.

Intermittent or Slug Method – Initial Dose: When the system is noticeably fouled, add 5.0-10 mL Busan 94 Liquid Microbicide /1000 L of water in the system. Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 3.0-10 mL Busan 94 Liquid Microbicide/1000 L of water in the system every 4 days or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method – Initial Dose: When the system is noticeably fouled, add 5.0-10 mL Busan 94 Liquid Microbicide/1000 L water to the system. Subsequently maintain this level by pumping a continuous feed of 0.5-5.0 mL Busan 94 Liquid Microbicide/1000 L of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF ALGAE Add 30-95 mL Busan 94 Liquid Microbicide/1000 L of water in the system, depending on the severity of contamination.

Intermittent or Slug Method – Initial Dose: When the system is noticeably fouled, add 50-95 mL Busan 94 Liquid Microbicide/1000 L of water in the system. Repeat until control is achieved. Subsequent Dose: When algal control is evident, add 30-95 mL Busan 94 Liquid Microbicide/1000 L of water in the system daily, or as needed to maintain fouled systems must be cleaned before treatment is begun.

Continuous Feed Method – Initial Dose: When the system is noticeably fouled, add 50-95 mL Busan 94 Liquid Microbicide/1000 L of water to the system. Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 30-95 mL Busan 94 Liquid Microbicide/1000 L of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

### **METALWORKING FLUIDS CONTAINING WATER**

This product is effective in metalworking concentrates which have been diluted in water at ratios of 1:100 to 1:4. For controlling (or inhibiting) growth of bacteria, fungi and yeast that may deteriorate metalworking fluids containing water, add Busan 94 Liquid Microbicide to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is just noticeably fouled, add 250 mL Busan 94 Liquid Microbicide/1000 L of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 100-200 mL of Busan 94 Liquid Microbicide/1000 L of metalworking fluid per day or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

### **ENHANCED OIL RECOVERY SYSTEMS**

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm by wt. Busan 94 Liquid Microbicide (2-60 mL Busan 94 Liquid Microbicide/cubic metre of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

Continuous Feed Method: When the system is noticeably fouled, add 10-80 ppm by wt. Busan 94 Liquid Microbicide (10-60 mL Busan 94 Liquid Microbicide/cubic metre of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm by wt. Busan 94 Liquid Microbicide (2-10 mL Busan 94 Liquid Microbicide/cubic metre of water) continuously, or as needed to maintain control.

Intermittent or Slug Method: When the system is noticeably fouled, or to maintain control of the system, add 10-80 ppm by wt. (10-60 mL/cubic Busan 94 Liquid Microbicide metre of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending on the severity of contamination. Addition of Busan 94 Liquid Microbicide may be made at the free water knockouts, before or after the injection pumps and injection well headers. NOTE: For control of bacteria, yeast and fungi in aqueous solutions of biopolymer used in flooding operations, add 15-80 ppm by wt. Busan 94 Liquid Microbicide (10-60 mL Busan 94 Liquid Microbicide/cubic metre of water). Additions of Busan 94 Liquid Microbicide should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

## **PRECAUTIONS**

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

**DANGER: CAUSES SEVERE BURNS OF EYES; MAY BURN THE SKIN; MAY BE HARMFUL OR FATAL IF SWALLOWED; POTENTIAL SKIN SENSITIZER.** Do not get in eyes, on skin, or on clothing. Wear chemical workers' goggles when handling. Wear a long-sleeved shirt, long pants and shoes plus socks when handling. Wash thoroughly after handling. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Wash contaminated clothing separate from other laundry prior to reuse. Users should remove protective clothing immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **FIRST AID**

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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 centre 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 inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If swallowed:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically. Note to physician: Probable mucosal damage may contraindicate gastric lavage.

### **DISPOSAL**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the Provincial Regulatory Agency. Contact the manufacturer and the Provincial Regulatory Agency in case of a spill, and for clean-up of spills.

**STORAGE:** To maintain product quality, store at temperature below 35°C. Keep package tightly closed when not in use.