



BUSAN® 96

ACCEPTED
9 OCT 1981
1448-73

FOR INDUSTRIAL MICROORGANISM CONTROL

ACTIVE INGREDIENT

2,2-Dibromo-3-nitropropionamide

5%

INERT INGREDIENTS*

95%

*Inert ingredients include solubilizing and dispersing agents

EPA Reg. No. 1448-73
EPA Est. No. 1448 TN 1
Net Contents as Marked
on Container

KEEP OUT OF REACH OF CHILDREN DANGER

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Causes severe burns of eyes. May burn the skin. May be harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear chemical workers' goggles when handling. Do not inhale fumes or vapor. Wash thoroughly after handling.

FIRST AID: In case of eye contact, flush eyes immediately with plenty of water for at least 15 minutes and get medical attention. In case of skin contact, wash with soap and plenty of water. Wash contaminated clothing before reuse. If product is swallowed, call a physician immediately. If patient is conscious, induce vomiting by stroking or tickling the patient's throat or far back on patient's tongue. Emetics such as 2 teaspoonsful (10 mL) of ipecac syrup or 1 teaspoonful (5 mL) of dry mustard in warm water to form a paste or even soap in warm water can be used. Repeat until vomit fluid is clear. Then have patient drink plenty of milk, gelatin solution, beaten egg whites, flour and water, or other nonoily demulcent. Never induce vomiting or give anything by mouth to an unconscious person.

Note to physician: Probable mucosal damage may contraindicate gastric lavage.

ENVIRONMENTAL HAZARDS: Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES permit. For guidance contact your Regional Office of the EPA. This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

STORAGE & DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

PESTICIDE DISPOSAL: Burn, spray mixture, or rinse that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

GENERAL: Consult Federal, State, or local disposal authorities for approved alternative procedures such as limited open burning.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

NOTE: Busan 96 is a water-soluble concentrate. Do not mix it with the additive the high pH of many additive formulations will cause the Busan 96 to precipitate.

PULP AND PAPER MILLS: For water control in pulp and paper mill systems, Busan 96 is employed at 300 to 1000 g per barrel (0.6 to 2.1 percent of pulp) per barrel of stock. Addition may be made continuously or intermittently as needed to control the growth of microorganisms. As a general rule, the treatment of the stock feed rates for periods of 2 to 6 hours out of each 12 or each 24 hours is recommended. The concentration and frequency of treatment are adjusted according to the rate of slime accumulation. Best results are obtained if Busan 96 is fed to the stock feed line of the fan pump or into the white water or stock moving to the fan pump. Before treatment with Busan 96, the stock feed line should be cleaned thoroughly.

COOLING WATER SYSTEMS: Busan 96 is used to control the growth of algae, fungi, and bacteria in commercial and industrial circulating cooling water systems. If the system is badly fouled, it is recommended that before treatment with Busan 96 a major portion of the system should be cleaned thoroughly, drained, flushed, and refilled with fresh water. Busan 96 should then be added to the water cooling line continuously or intermittently as required to maintain control. If shock dosing is used, the blowdown should be discontinued 24-48 hours after treatment.

For Control of Fungi and Algae: If intermittent or slug dose treatment is used, add an initial dose of 192-380 ml Busan 96 (0.192-0.380 gal Busan 96/1000 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 116-380 ml Busan 96 (0.116-0.380 gal Busan 96/1000 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 116-380 ml Busan 96 (0.116-0.380 gal Busan 96/1000 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 19-38 ml Busan 96 (0.019-0.038 gal Busan 96/1000 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 9.5-38 ml Busan 96 (0.0095-0.038 gal Busan 96/1000 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 1.9-19 ml Busan 96 (0.0019-0.019 gal Busan 96/1000 gal water) based on the total volume of water in the system.

ONCE THROUGH INDUSTRIAL COOLING WATER SYSTEMS: Busan 96 is used to control bacteria, fungi, and algae in once through and closed cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons. Busan 96 should be added to the system water or before any other contaminated area in the system by means of a metering pump. Treatment may be on a continuous intermittent basis depending on the severity of the contamination and the retention time in the system.

For Control of Fungi and Algae: If intermittent or slug dose treatment is used, add an initial dose of 240-472 ppm Busan 96 based on the flow rate through the system. The minimum treatment interval should be 15 min. Repeat until control is evident. Then treat the system with 144-472 ppm Busan 96 as needed to maintain control. If the continuous feed method of treatment is used, make initial dose as described above. Then treat the system with 144-472 ppm Busan 96 by means of a chemical metering pump.

For Control of Bacteria: If intermittent or slug dose treatment is used, add an initial dose of 24-48 ppm Busan 96 based on the flow rate of the system. Minimum treatment interval should be 15 min. Repeat until control is evident. Then add 12-48 ppm Busan 96 as needed to maintain control. If the continuous feed method of treatment is used, make initial dose as described above. Then add 4-24 ppm Busan 96 by means of a metering pump as needed to maintain control.

AIR WASHER SYSTEMS: Busan 96 is used to control slime forming bacteria and fungi in industrial air washer systems. Busan 96 is added to the water in the system. The system should be cleaned, refilled with fresh water, and treated regularly with Busan 96.

If intermittent or slug dose treatment is employed, add an initial dose of 15.6-250 ml Busan 96 (0.0156-0.250 gal/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 7.8-125 ml Busan 96 (0.0078-0.125 gal Busan 96/1000 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 7.8-125 ml Busan 96 (0.0078-0.125 gal Busan 96/1000 gal water) in the system by means of a chemical metering pump.

METALWORKING FLUIDS: Busan 96 is used to inhibit the growth of bacteria and yeasts that may deteriorate aqueous metalworking fluids. It is effective in fluid concentrates that have been diluted in water at rates of 1:100 to 1:4. Busan 96 should be added to the metalworking fluid system continuously by use of a metering pump.

Initial Slug Dose: When the system is noticeably fouled, add 1000 ml Busan 96 (1.0 gal/1000 gal fluid) based on the total volume of fluid in the system. Repeat until control is evident.

Subsequent Doses: Add 48-80 ml Busan 96 (0.048-0.08 gal Busan 96/1000 gal fluid) daily or as needed to maintain control. If the system is heavily fouled, add 1000 ml Busan 96 (1.0 gal/1000 gal fluid) daily or as needed to maintain control.

ENHANCED OIL RECOVERY SYSTEMS: Busan 96 is used to control slime forming bacteria and fungi in enhanced oil recovery systems. Busan 96 is added to the water in the system. The system should be cleaned, refilled with fresh water, and treated regularly with Busan 96.

If intermittent or slug dose treatment is employed, add an initial dose of 15.6-250 ml Busan 96 (0.0156-0.250 gal/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 7.8-125 ml Busan 96 (0.0078-0.125 gal Busan 96/1000 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 7.8-125 ml Busan 96 (0.0078-0.125 gal Busan 96/1000 gal water) in the system by means of a chemical metering pump.

Intermittent or Slug Method: When the system is noticeably fouled, add 1000 ml Busan 96 (1.0 gal/1000 gal fluid) based on the total volume of fluid in the system. Repeat until control is evident.

Subsequent Doses: Add 48-80 ml Busan 96 (0.048-0.08 gal Busan 96/1000 gal fluid) daily or as needed to maintain control. If the system is heavily fouled, add 1000 ml Busan 96 (1.0 gal/1000 gal fluid) daily or as needed to maintain control.

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