

Notice: Do not mix with Fertilizers, Pesticides, Drugs, or Clothing.

ACCEPTED

JUL 8 1996

Under The Federal Insecticide, Fungicide and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1448-385

KEEP OUT OF REACH OF CHILDREN DANGER

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

FOR INDUSTRIAL USE ONLY.

CAUSES SEVERE BURNS OF EYES, CAUSES SKIN IRRITATION, HARMFUL IF SWALLOWED.

Do not get in eyes, on skin, or on clothing. Wear chemical worker's goggles when handling. Wash thoroughly after handling.

First Aid: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of skin contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists. If swallowed, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. NOTE: 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. In case of an emergency endangering life or property involving this product, call collect 901-767-2722.

STORAGE AND DISPOSAL

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

Storage: To maintain product quality, store at temperatures below 60°C. Keep container tightly closed when not in use.

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 Disposal: Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

DIRECTIONS FOR USE

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

NOTE: ADD Bulab 6087 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES IN ORDER TO AVOID DECOMPOSITION OF Bulab 6087 DUE TO THE HIGH pH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS—For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add Bulab 6087 at the rate of 0.06-0.21 gal/ton 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 Bulab 6087 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 0.06-0.15 gal Bulab 6087/ton of paper (dry basis), as necessary for control. Moderately fouled systems should be treated continuously with 0.15-0.21 gal Bulab 6087/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.06-0.15 gal Bulab 6087/ton of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable. Slightly fouled systems should be treated continuously with 0.06-0.15 gal Bulab 6087/ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

METALWORKING FLUIDS CONTAINING WATER—This product is effective in metal working fluid concentrates which have been diluted in water at ratios of 1:100-1:4.

For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add Bulab 6087 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 1.1 gal Bulab 6087/1,000 gal of metalworking fluid to the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.44-0.88 gal Bulab 6087/1,000 gal 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 moisture (floods, water-disposal systems, or other oil field water systems, add 4-320 ppm Bulab 6087 (0.4-28.6 gal Bulab 6087 per 2400 barrels 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 40-320 ppm Bulab 6087 (3.6-28.6 gal Bulab 6087 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 4-80 ppm Bulab 6087 (0.4-5.4 gal Bulab 6087 per 2400 barrels 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 40-320 ppm Bulab 6087 (3.6-28.6 gal Bulab 6087 per 2400 barrels 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 Bulab 6087 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 60-320 ppm Bulab 6087 (5.4-28.6 gal Bulab 6087 per 2400 barrels of water). Additions of Bulab 6087 should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS—Add Bulab 6087 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.

Bulab® 6087

Controls bacteria, fungi, and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria, fungi, and algae in industrial recirculating water cooling towers and in once-through fresh and sea water industrial cooling water systems; controls slime-forming bacteria and fungi in air-washer systems.

ACTIVE INGREDIENTS:

2,2-Dibromo-3-nitropropionamide 5.0%

INERT INGREDIENTS: 95.0%

TOTAL 100.0%

FOR CONTROL OF BACTERIA—Add 0.0038-0.038 gal Bulab 6087/1,000 gal of water in the system, depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.019-0.038 gal Bulab 6087/1,000 gal of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.0095-0.038 gal Bulab 6087/1,000 gal 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 0.019-0.038 gal Bulab 6087/1,000 gal of water to the system. Subsequent dose: Maintain this level by pumping a continuous feed of 0.0038-0.019 gal Bulab 6087/1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE—Add 0.116-0.380 gal Bulab 6087/1,000 gal of water in the system depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.192-0.380 gal Bulab 6087/1,000 gal of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.116-0.380 gal Bulab 6087/1,000 gal of water in the system daily, 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 0.192-0.380 gal Bulab 6087/1,000 gal of water to the system. Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.116-0.380 gal Bulab 6087/1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS—For controlling bacteria, fungi, and algae in once-through and closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add Bulab 6087 to the system inlet water or before any other contaminated area in the system. 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.

FOR CONTROL OF BACTERIA—Add 4-48 ppm Bulab 6087 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 24-48 ppm Bulab 6087. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 12-48 ppm Bulab 6087 intermittently 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 24-48 ppm Bulab 6087 continuously to the system. Subsequent Dose: When microbial control is evident, pump a continuous feed of 4-24 ppm Bulab 6087 to the system.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE—Add 144-472 ppm Bulab 6087 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 240-472 ppm Bulab 6087 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 144-472 ppm Bulab 6087 to the system daily or as needed to maintain control. The minimum treatment interval should be 15 minutes.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 240-472 ppm Bulab 6087 to the system. Subsequent Dose: When microbial control is evident, pump a continuous feed of 144-472 ppm Bulab 6087 to the system.

Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS—Add 0.0078-0.250 gal Bulab 6087/1,000 gal of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer systems.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.156-0.250 gal Bulab 6087/1,000 gal of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.0078-0.125 gal Bulab 6087/1,000 gal of water in the system every 2 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 0.156-0.250 gal Bulab 6087/1,000 gal of water in the system. Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0078-0.125 gal Bulab 6087/1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

Note: For use only in industrial air-washer systems that maintain effective mist eliminating components.

Notice: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use.

REVERSE OSMOSIS SYSTEMS—Bulab 6087 may be used to control microbiological fouling in reverse osmosis systems used for process, wastewater, and other non-potable application. Bulab 6087 should be fed to the membrane feedwater at a rate of 40-300 ppm (5.5-41.5 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 severity of the problem. For off-line cleaning, Bulab 6087 should be added to provide a level of 200-1000 ppm (27.5-137.5/1000 gal) in the soak solution.

Manufactured by:

BUCKMAN LABORATORIES, INC.

1256 N. McLEAN BLVD., MEMPHIS, TENN. 38108, U.S.A. (901) 278-0330 OR 1-800-BUCKMAN EPA ESTABLISHMENT NO. 1448

HMIS/NPCA RATING

Health 3 Flammability 1 Reactivity 1

Product Weight: 8.4 lbs/gal, 1.13 kg/l NET CONTENTS MARKED ON CONTAINER EPA Reg. No. 1448-GIL

PM 84

W448-395

7/8/96

9/18/1