BETZ®

LABORATORIES, INC.

Slimicide 508

SLIME CONTROL AGENT

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CAUSES SEVERE BURNS OF EYES. EYE CONTACT MAY CAUSE LOSS OF VISION. MAY BURN THE SKIN. MAY BE HARMFUL OR FATAL IF SWALLOWED. DO NOT TAKE INTERNALLY. DO NOT GET INTO EYES, ON SKIN OR ON CLOTHING. CHEMICAL WORKER'S GOGGLES MUST BE WORN WHEN HANDLING. DO NOT INHALE VAPOR OR MIST. USE WITH ADEQUATE VENTILATION. IMMEDIATELY REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.

ENVIRONMENTAL HAZARDS

THIS PESTICIDE IS TOXIC TO FISH AND WILDLIFE. DO NOT DISCHARGE EFFLUENT CONTAINING THIS ACTIVE INGREDIENT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEANS, OR PUBLIC WATERS UNLESS THIS PESTICIDE IS SPECIFICALLY IDENTIFIED AND ADDRESSED IN AN NPDES PERMIT. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PESTICIDE TO SEWER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE SEWAGE TREATMENT PLANT AUTHORITY. FOR GUIDANCE CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA. APPLY THIS PESTICIDE ONLY AS SPECIFIED ON THIS LABEL.

ACCEPTED

EPA Letter Dated

SEP 19 1988

Under the Federal Insecticide, Fungicide, and Rodenticide Act for the pesticide registered under EPA Reg. No. 3876-95

NET WT.: LBS.

LOT NO.

FOR INDUSTRIAL USE. Technical advice regarding specific site problems is available from BETZ.

508EPA 0803

PANEL 1 OF 2

Active Ingredients:	
2,2-Dibromo-3-nitrilopropionamide	20.0%
Inert Ingredients*:	80.0%
Total	100.0%

* Inert ingredients include solubilizing and dispersing agents.

CONTENTS: LIQUID EPA EST. NO.
POUNDS PER GALLON: 10.6 (60F)
EPA REG. NO.: 3876-95

DANGER KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

In case of contact with skin, wash immediately with plenty of soap and water. Immediately contact physician.

In case of contact with eyes, flush promptly and thoroughly with plenty of clear water for at least 15 minutes. Immediately contact physician.

In case of ingestion, induce vomiting immediately by giving two glasses of water and sticking finger down the throat. Repeat until vomit is clear. Immediately contact physician. Never give anything by mouth to an unconscious person.

A Material Safety Data Sheet containing more detailed information concerning this product is available upon request.

DIRECTIONS FOR USE:

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

STORAGE AND DISPOSAL

STORAGE: Keep container tightly closed. Protect from freezing. Store in a dry place. Do not store at elevated temperatures.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous and/or toxic. 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: METAL AND PLASTIC CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate or burn if allowed by state and local authorities. If burned, stay out of smoke.

FIBER DRUMS WITH LINERS: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by state and local authorities. Do not reuse empty drum or liner.

RECIRCULATING COOLING WATER SYSTEMS

This product aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, commercial and industrial cooling towers, influent systems such as flow-through filters and lagoons, industrial water scrubbing systems and brewery pasteurizers. NOTE: Add this product separately to the system. Do NOT mix it with other additives in order to avoid decomposition of this product due to the high pH of many additive formulations. Add this product at any point in the system to insure uniform mixing. This product may be added to the systems either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon the severity of contamination. Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, blowdown should be discontinued for 24 to 48 hours. Add this product at the rate of 0.005 to 1.0 lb (0.6 to 120 ppm) per 1000 gals of water in the system, depending upon the severity of contamination. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

INTERMITTENT OR SLUG METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.05 to 0.1lb(6 to 12ppm) per 1000 gals of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.025 to 0.1 lb (3 to 12 ppm) per 1000 gals of water in the system every 4 days or as needed to maintain control. CONTINUOUS FEED METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.05 to 0.1lb(6 to 12ppm)per 1000 gals of water in the system. SUBSEQUENT DOSE: Continuously feed this product to maintain a dosage of 0.005 to 0.05 lb(0.6 to 6ppm) per 1000 gals of blowdown(or water loss) from the system.

FOR THE CONTROL OF FUNGI AND ALGAE

INTERMITTENT OR SLUG METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.5 to 1.0lb (60 to 120ppm)per 1000 gals of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: When algal control is evident, add this product at the rate of 0.3 to 1.0lb(36 to 120ppm)/1000 gals of water daily or as needed to maintain control. CONTINUOUS FEED METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.5 to 1.0lb(60 to 120ppm)per 1000 gals of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: Continuously feed this product to maintain a dosage of 0.3 to 1.0 lb(36 to 120 ppm) per 1000 gals of blowdown (or water loss) from the system.

USE DIRECTIONS CONTINUED ON SECOND PANEL.

ATTACH PANEL TWO HERE

ATTACH PANEL ONE HERE

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USE DIRECTIONS CONTINUED FROM PANEL ONE

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 this product to the system inlet water or before any other contaminated area in the system. Addition of this product should be made with a metering pump; it may be continuous/intermittent depending upon the severity of the contamination when treatment is begun and the retention time in the system. Add this product at the rate of 0.01 to 1.0 lb(1 to 120 ppm) per 1000 gals of water based on the flow rate through the system.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR THE CONTROL OF BACTERIA

INTERMITTENT METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.05 to 0.1lb(6 to 12ppm) per 1000 gals of water. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.025 to 0.1lb(3 to 12ppm) per 1000 gals of water intermittently as needed to maintain control. CONTINUOUS FEED METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.05 to 0.1lb(6 to 12ppm) per 1000 gals of water continuously to the system. SUBSEQUENT DOSE: When microbial control is evident, pump a continuous feed of this product at the rate of 0.012 to 0.05 lb(1 to 6 ppm) per 1000 gals of water based on the flow rate through the system.

FOR THE CONTROL OF FUNGI AND ALGAE

INTERMITTENT METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.5 to 1.0lb(60 to 120ppm) per 1000 gals of water in the system. Minimum treatment interval should be 15 minutes. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.3 to 1.0lb(36 to 120ppm) per 1000 gals of water to the system daily or as needed to maintain control. The minimum treatment interval should be 15 minutes.

CONTINUOUS FEED METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.5 to 1.0lb(60 to 120ppm) per 1000 gals of water in the system. SUBSEQUENT DOSE: When microbial control is evident, pump a continuous feed of this product at the rate of 0.3 to 1.0lb(36 to 120ppm) per 1000 gals of water based on the flow rate through the system.

METAL-WORKING CUTTING FLUIDS CONTAINING WATER

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

INITIAL OR SLUG DOSE: When the system is noticeably fouled, add this product at the rate of 0.25 gal (2.65 lbs) per 1000 gals of metal working fluid in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lbs) per 1000 gals of metal working fluid per day, or as needed to maintain control. Additions of this product can be made continuously or intermittently. Slug the system as required.

AIR WASHERS

For use only in industrial air washer systems that maintain effective mist eliminating components. This product controls slime forming bacteria and fungi in industrial air washer systems. Add this product at the rate of 0.016 to 1.0lb(1.9 to 120ppm) per 1000 gals of water in the system depending upon the severity of contamination. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

INTERMITTENT OR SLUG METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.032 to 1.0lb(3.8 to 120ppm) per 1000 gals of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.016 to 0.5lb(1.9 to 60ppm) per 1000 gals of water in the system every 2 days or as needed to maintain control.

CONTINUOUS FEED METHOD---INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.032 to 1.0lb(3.8 to 120ppm) per 1000 gals of water in the system. SUBSEQUENT DOSE: Maintain this level by a continuous feed of this product at the rate of 0.016 to 0.5 lb(1.9 to 60ppm) per 1000 gals of blowdown(or water loss) from the system.

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ACCEPTED SEP 19 1995 EPA Letter Dated 3876-25

ENHANCED OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts and fungi in oil field water, polymer or mycellar floods, water disposal systems, or other oil field water systems, add this product at the rate of 1 to 80ppm (0.1 gal or 1.06 lbs to 6.4 gals or 67.8lbs per 1000 barrels of water) depending upon the severity of contamination. Additions of this product should be made with a metering pump either continuously or intermittently. Addition of this product may be made at the free water knockouts, before or after the injection pumps and injection well headers.

INTERMITTENT OR SLUG METHOD---When the system is noticeably fouled, or to maintain control of the system, add this product at the rate of 10 to 80ppm (0.8 gal or 8.48lbs to 6.4 gals or 67.8 lbs this product/2400 barrels of water) intermittently for 4 to 8 hours per day, and from 1 to 4 times per week or as needed depending on the severity of contamination. CONTINUOUS FEED METHOD---When the system is noticeably fouled, add this product at the rate of 10 to 80ppm(0.8gal or 8.48lbs to 6.4gals or 67.8lbs per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with this product at the rate of 1 to 15ppm (0.1gal or 1.06lbs to 1.2gals or 12.72lbs per 2400 barrels of water) continuously or as needed to maintain control.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding operations, add this product at the rate of 15 to 80ppm(1.2gal or 12.72lbs to 6.4gals or 67.8lbs per 2400 barrels of water). Additions of this product should be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss of viscosity.