

# BETZ

LABORATORIES, INC.

# SLIMICIDE

SLIME CONTROL AGENT

USE DIRECTIONS CONTINUED FROM PANEL TWO

## NON-POTABLE REVERSE OSMOSIS SYSTEMS

For controlling bacteria, fungi and algae slimes in non-potable REVERSE OSMOSIS systems and peripheral equipment, add this product to the system inlet water or before any other contaminated area ahead of the REVERSE OSMOSIS unit. This product should be added with a metering pump on an intermittent basis depending on the severity of contamination and the guidelines specified by the membrane manufacturer for this product. Add this product at the rate of 0.01 to 1.0 lb. (1 to 120 ppm) per 1000 gals of feedwater. During use of this product both permeate and reject waters should be directed to the drain. Once treatment is completed, rinsing with feedwater should continue until conductivity values in the permeate are at or below values before treatment with this product. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

### FOR THE CONTROL OF BACTERIA

**INITIAL DOSE:** When the system is noticeably fouled, add this product at the rate of 0.05 to 0.1 lb. (6 to 12 ppm) per 1000 gals of feedwater. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer.

**SUBSEQUENT DOSE:** When microbial control is achieved, add this product at the rate of 0.025 to 0.1 lb. (3 to 12 ppm) per 1000 gals of feedwater as needed to maintain control or as specified by guidelines recommended by the membrane manufacturer.

### FOR THE CONTROL OF FUNGI AND ALGAE

**INITIAL DOSE:** When the system is noticeably fouled, add this product at the rate of 0.5 to 1.0 lb. (60 to 120 ppm) per 1000 gals of feedwater. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved or as specified by the guidelines recommended by the membrane manufacturer.

**SUBSEQUENT DOSE:** When microbial control is achieved, add this product at the rate of 0.3 to 1.0 lb. (36 to 120 ppm) per 1000 gals of feedwater as needed to maintain control or as specified by the guidelines recommended by the membrane manufacturer.

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SLINE CONTROL AGENT

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**ACCEPTED**

APR 21 1993

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

**55-3300 EMERGENCY (HEALTH OR ACCIDENT): 1-800-877-1940**

# BETZ SLIMICIDE

LABORATORIES, INC. SLIME CONTROL AGENT

## 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.

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SLIME CONTROL AGENT

## 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 1.01b(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 1.01b(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 0.51b(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 1.01b(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.

**ACCEPTED**

APR 21 1993

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

## 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 knock-outs, before or after the injection pumps and injection well headers.

**INTERMITTENT OF 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.

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**55-3300 EMERGENCY (HEALTH OR ACCIDENT): 1-800-877-1940**

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# BETZ LABORATORIES, INC.

# Slimecid

SLIME CONTROL AGENT

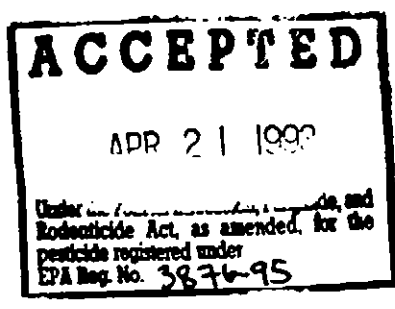
PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS

## 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 APPLY IN MARINE AND/OR ESTUARINE OIL FIELDS. 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.



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LOT NO. FOR INDUSTRIAL USE. Technical advice regarding specific site problems is available from BETZ. 500EPA 9111 PANEL 1 OF 3

Active Ingredients:  
2,2-Dibromo-3-nitripropionamide..... 23.02  
Inert Ingredients\*:..... 80.02  
Total..... 100.02  
\* Inert ingredients include solubilizing and dispersing agents.

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

EPA EST. NO.

**DANGER** KE ST  
In case of contact with physician.  
In case of contact with 15 minutes. Immediately  
In case of ingestion, it down the throat. Repeat mouth to an unconscious  
A Material Safety Data Sheet upon request.

## DIRECTIONS FOR USE: It is a violation of Federal law to use this

**STORAGE AND DISPOSAL**  
**STORAGE:** Keep container tightly closed. Protect from freezing. Store in a dry place. Do not  
**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot  
**CONTAINER DISPOSAL: METAL AND PLASTIC CONTAINERS:** Triple rinse (or equivalent). Then offer  
**DRUMS WITH LINERS:** Completely empty liner by shaking and tapping sides and bottom  
dispose of liner and drum in a sanitary landfill or incinerate if allowed by state and

**RECIRCULATING COOLING**  
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 2 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. HEAVILY 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 0.11 lb (6 to 12 ppm) per 1000 gals of water to the system. Repeat until control is achieved. **SUBSEQUENT DOSE:** When microbial con-

TREVOSE, PA 19053 BUSINESS PHONE: 215-355-3300 EMERGENCY (

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SLIME CONTROL AGENT

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**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.

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

Protect from freezing. Store in a dry place. Do not store at elevated temperatures.

Do not use on food or feed by storage or disposal. Pesticide wastes are acutely hazardous and/or toxic. Improper disposal of excess product is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

First Aid: Triple rinse (or equivalent). Take offer for recycling or reconditioning, or puncture and dispose of in a sanitary state and local authorities. If burned, stay out of smoke.

Preparation: Shake or by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then fill or incinerate if allowed by state and local authorities. Do not reuse empty drum or liner.

### RECIRCULATING COOLING WATER SYSTEMS

Control of fungal and algal slimes in evaporator, commercial and industrial cooling towers, filters and lagoons, industrial water systems.

NOTE: Add this product separately to each system in order to avoid decomposition of active ingredients. Add this product to each system. This product may be added to each system as needed. The frequency of application depends upon the severity of contamination. When control is attained by continuous or intermittent application, blowdown should be discontinued for 24 hours. If blowdown is required, add 0.005 to 1.0 lb (0.6 to 120 ppm) of product per 1000 gals of water. When the system is noticeably fouled, add 0.025 to 0.1 lb (3 to 12 ppm) per 1000 gals of water. 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 0.1 lb (6 to 12 ppm) 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 6 ppm) 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 1.0 lb (60 to 120 ppm) 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 1.0 lb (36 to 120 ppm) per 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 1.0 lb (60 to 120 ppm) 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.

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CONTINUOUS FEED METHOD—INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.05 to 0.1 lb (6 to 12 ppm) 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 6 ppm) per 1000 gals of blowdown (or water loss) from the system.

FOR THE CONTROL OF FUNGI AND ALGAE

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USE DIRECTIONS CONTINUED ON SECOND PANEL.

ATTACH PANEL TWO HERE

55-3300 EMERGENCY (HEALTH OR ACCIDENT): 1-800-877-1940