

BETZ

ENTEC®

345A

BETZ WATER MANAGEMENT GROUP

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 PRODUCT IS TOXIC TO FISH. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEAN OR OTHER WATERS UNLESS IN ACCORDANCE WITH THE REQUIREMENTS OF A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT & 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. APPLY THIS PESTICIDE ONLY AS SPECIFIED ON THIS LABEL.

ACCEPTED
OCT 18 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under E.A. Reg. No. 34571-10

NET WT. : LBS.
LOT NO. :

FOR INDUSTRIAL USE. Technical advice regarding specific site problems is available from BETZ, 3452 8702 PANEL 1 OF 2

Active Ingredient:
2,2-Dibromo-3-nitrilopropionamide..... 5Z
Inert Ingredients..... 95Z
Total..... 100Z

*Inert ingredients include solubilizing and dispersing agents.

CONTENTS: LIQUID
POUNDS PER GALLON: 9.6 (75F)
EPA REG. NO.: 34571-10

EPA EST. NO.

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. Immediate 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:**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

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. This product aids in the control of bacterial, algal and fungal 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. Add this product to the system at any point to insure uniform mixing. This product may be added to the system 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. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

Add this product at the rate of 0.018 to 0.36 lb (2.1 to 43 ppm) per 1000 gals of water in the system, depending upon the severity of contamination.

INTERMITTENT OR SLUG METHOD--INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.18 to 0.36 lb (21 to 43 ppm) 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 0.09 to 0.36 lb (10 to 43 ppm) per 1000 gals of water in the system every 4 days as needed to maintain control.

CONTINUOUS FEED METHOD--INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.18 to 0.36 lb (21 to 43 ppm) per 1000 gals of water in the system. **SUBSEQUENT DOSE:** Continuously feed this product to maintain a dosage of 0.018 to 0.18 lb (2.1 to 21 ppm) per 1000 gals of blowdown (or water loss) from the system.

FOR CONTROL OF FUNGI AND ALGAE

This product at the rate of 1.11 to 3.65 lbs (133 to 438 ppm) per 1000 gals of water in the system, depending upon the severity of contamination.

INTERMITTENT OR SLUG METHOD--INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 1.84 to 3.65 lbs (221 to 438 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 1.11 to 3.65 lbs (133 to 438 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 1.84 to 3.65 lbs (221 to 438 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 1.11 to 3.65 lbs (133 to 438 ppm) per 1000 gals of blowdown (or water loss) from the system.

WISCONSIN, PA 19044 BUSINESS PHONE: 215-674-8700 EMERGENCY (HEALTH OR ACCIDENT): 1-800-877-1940

ENTEC® 345A



EE023451



ENTEC® 345A

NET WT. :

LBS.

LOT NO. :

ENTEC® 345A

PROPER SHIPPING NAME:

DISCARD THIS TAB. THIS PRODUCT
IS NOT REGULATED BY DOT.

CUSTOMER PART NO.

SPECIFIC
HAZARD -
4 - Severe
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

ENTEC® 345A

HEALTH 3

FLAMMABILITY 1

REACTIVITY 0

PERSONAL PROTECTION B

PERSONAL
PROTECTION
X - ASK SUPERVISOR
A - SAFETY GLASSES
B - GOGGLES GLOVES
C - GOGGLES GLOVES
APRON
D - GOGGLES GLOVES
APRON

ATTACH PANEL TWO HERE

17932
34571-10

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 systems' 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 or intermittent depending upon the severity of the contamination when treatment is begun, & the retention time in the system. **BADLY FOULED SYSTEMS** must be cleaned before treatment is begun.

FOR THE CONTROL OF BACTERIA. Add this product at the rate of 0.04 to 0.4 lb (4 to 48 ppm) per 1000 gals of water based on the flow rate through the system, depending upon the severity of contamination.

INTERMITTENT METHOD--INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 0.2 to 0.4 lb (24 to 48 ppm) 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 0.1 to 0.4 lb (12 to 48 ppm) 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 0.2 to 0.4 lb (24 to 48 ppm) 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 0.04 to 0.2 lb (4 to 24 ppm) per 1000 gals of water based on the flow rate through the system.

FOR THE CONTROL OF FUNGI AND ALGAE. Add this product at the rate of 1.2 to 4.0 lbs (144 to 480 ppm) per 1000 gals of water 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 this product at the rate of 2.0 to 4.0 lbs (240 to 480 ppm) 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 1.2 to 4.0 lbs (144 to 480 ppm) per 1000 gals of water intermittently or as needed to maintain control. **CONTINUOUS FEED METHOD--INITIAL DOSE:** When the system is noticeably fouled, add this product at the rate of 2.0 to 4.0 lbs (240 to 480 ppm) per 1000 gals of water. **SUBSEQUENT DOSE:** When microbial control is evident, pump a continuous feed of this product at the rate of 1.2 to 4.0 (144 to 480 ppm) 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 concentrated which have been diluted in water at ratios of 1:100 to 1:4. For controlling (or inhibiting) the growth of bacteria, fungi & 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 10.50 lbs (1.1 gals) 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 4.22 to 8.45 lbs (0.44 to 0.88 gal) 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.

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 0.075 to 2.4 lbs (9 to 288 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.

INTERMITTENT OR SLUG METHOD--INITIAL DOSE: When the system is noticeably fouled, add this product at the rate of 1.5 to 2.4 lbs (180 to 288 ppm) per 1000 gals of water in the system. Repeat until control is achieved. **SUBSEQUENT DOSE:** When control is evident, add this product at the rate of 0.075 to 1.2 lbs (9 to 144 ppm) 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 1.5 to 2.4 lbs (180 to 288 ppm) per 1000 gals of water in the system. **SUBSEQUENT DOSE:** Maintain this level by a continuous feed of this product at the rate of 0.075 to 1.2 lbs (9 to 144 ppm) per 1000 gals of blowdown (or water loss) from the system.

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 0.04 to 4.0 lbs. (4 to 480 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 0.2 to 0.4 lb (24 to 48 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 0.1 to 0.4 lb (12 to 48 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 2.0 to 4.0 lb (240 to 480 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 1.2 to 4.0 lb (144 to 480 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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PANEL 2 OF 2

WORCHAM, PA 19044 BUSINESS PHONE: 215-674-9200 EMERGENCY (HEALTH OR ACCIDENT): 1-800-877-1940

SPECIFIC HAZARD — 4 — Severe 3 — Serious 2 — Moderate 1 — Slight 0 — Minimal	HEALTH	
	FLAMMABILITY	
PERSONAL PROTECTION X ASK SUPERVISOR A SAFETY GLASSES B GOGGLES GLOVES C GOGGLES GLOVES APRON D GOGGLES GLOVES	REACTIVITY	