LOT MM

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

FIRST AID: In case of eye contact, flush eyes immediately with

plenty of water for at least 15 minutes and get medical atten-

tion. In case of skin contact, wash with soap and plenty of

If swallowed, induce vomiting immediately by giving two

glasses of water and sticking finger down throat. Repeat until

vomit is clear. Call a physician. Never give anything by mouth

WASH THOROUGHLY AFTER HANDLING

In case of an emergency endangering life or property

involving this product, call collect

517-838-4400

TO MAINTAIN PRODUCT QUALITY, STORE AT

TEMPERATURES BELOW 60°C.

KEEP CONTAINER TIGHTLY CLOSED

WHEN NOT IN USE . FOR INDUSTRIAL USE ONLY

water. Wash contaminated clothing before reuse.

to an unconscious person.

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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, Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES permit. For guidance, contact your regional EPA office. Do not reuse empty container. Return to drum reconditioner; or destroy it by perforating or crushing, and burying or discarding in a safe plack eway from water supplies.

Controls bacteria, fungi, and yeasts in peper mills, metalworking flue recirculating water cooling towers and in once-through fresh and see



DIRECTIONS FOR USE

NOTE: ADD XD-8259 ANYIMICROBIAL SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOM-POSITION OF XD-8259 ANTIMICROBIAL 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 XD-8259 at the rate of 0.30-1.0 lb/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 XD-8259 in the mass of fiber and water, such as the beakers, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white water tanks.

Heavily fouled systems should be bailed out, then treated with 0.35 P.70 lb XD-8259/ton of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 0.70 1.0 lb XD 8259/con of paper (dry basis) until the slime accumulation is controlled. Addution rates can then be reduced to 0.30-0.70 lb XD-8259/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 0.30-0.70 lb XD-8259/ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control INDUSTRIAL RECIR WATER COOLING

Add XD-8259 ANTIMICROBIAL to the basin for ing). Addition should be made with a metering p termittent, depending on the seventy of the d begun, and the retention time in the system Optimum performance with this product is a mittent treatment. If "shock" treatment is u discontinued for 24-48 hr

XD-82!

FOR CONTROL OF B Add 0.002 0 02 gal XD-8259/1,000 gal of water severity of contamination

Intermittent or Slug Method

Initial Date: When the system is noticea XD-8259/1,000 gal of water in the system Re Subsequent Dose: When microbial control XD-8259/1,000 gal of water in the system every

control. Badly fouted systems must be cleaned being Continuous Feet Method

Initial Dose: When the system is notice! XD-8259/1,000 gal of water to system. Subsequent Dose: Maintain this level by 0.002-0.01 gal XD-8259/1,000 gal of water in

Bedly fouled systems must be cleaned befor FOR CONTROL OF FUNC

Add 0 06-0.20 gal XD 8259/1,000 gat of wate severity of contamination

Intermittent or Slug Method Initial Dose: When the system is notice XD-8259/1,000 gal of water in the system R Subsequent Dose: When microbial contr XD-8259/1,000 gal of water in the system control.

Badly fouled systems must be cleaned bef Continuous Feed Method Initial Dose: When the system is note

Au 259/1,000 gal of water to the system

86-1336 PRINTED IN U.S.A. IN DECEMBER, 1979. REPLACES SPECIMEN LABEL 86-1336 PRINTED IN JUNE, 1977. DISCARD PREVIOUS SPECIMEN LABELS REVISIONS INCLUDE: (1) NEW USES ADDED: PAPER MILLS; INDUSTRIAL RECIRCULATING WATER COOLING TOWERS; ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS; ENHANCED OIL RECOVERY SYSTEMS; AIR-WASHER SYSTEMS; (2) NPDES DISCHARGE STATEMENT ADDED; (3) CONTAINER DISPOSAL INSTRUCTIONS REVISED; (4) NOTE AGAINST MIXING WITH OTHER ADDITIVES ADDED.

XD-8259 ANTIMICROB

gi, and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria, fungi, and a cooling towers and in once-through fresh and see water industrial cooling water systems; `controls slime-forming bacteria and fungi in air-wat

imate water by cleaning of equip duct only as specified on this label. or public waters unless in accorcontact your regional EPA office. rum reconditioner; or destroy at by snarding in a safe place away from

Not Ship or Store with Food, Feeds, Drugs, or Clothing

FOR USE

SEPARATELY TO THE SYSTEM. IN ORDER TO AVOID DECOM DUE TO THE HIGH PH OF MANY

MILLS

ist growths in pulp, paper, and paper 30-1.0 lb/ton of pulp or paper (dry mittent, depending upon the type of It should be made with a metering distribution of XD-8259 in the mass of inlet or discharge, broke chests, fur

'ks. d out, then treated with 0.30-0.70 lb

ssain for control. treated continuously with 0.70-1.0 lb sime accumulation is controlled. Ad-/0 lb XD-8259/ton of paper on a concontrol. Dislodged sline may cause paper machine may be advisable.

d continuously with 0.30-0.70 lb XD is controlled, then added on an inter-

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add XO-8259 ANTIMICROBIAL to the basin for any other point of uniform mix ing). Addition should be made with a metering pump, it may be continuous or in termittent, 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 inter mittent treatment. If "shock" treatment is used, the blowdown should be discontinued for 24-48 hr

FOR CONTROL OF BACTERIA

Add 0.002-0 02 gal XD 8259/1,000 gal of water in the system, depending on the severity of contamination **Intermittent or Slug Method**

Initial Dose: When the system is noticeably foulad, add 0.01.0.02 gal XD-8259/1,000 gal of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial cuntrol is evident, add 0.005-0.02 gal XD-8259/1,000 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 0.01-0.02 gal XD-8259/1,000 gal of water to system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.002-0 01 gal XD-8259/1,000 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 0.06-0.20 gal XD-8259/1,000 gal of water in the system, depending on the severity of contamination

Intermittent or Slug Method

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Initial Dose: When the system is noticeably touled, add 0 10-0.20 gal XD-8259/1,000 gal of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.06-0.20 gal XD-8259/1,000 gal of water in the system daity, or as needed to maintain

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method Initial Dose. When the system is noticeably fouled, add 0.10-0.20 gal XD-8259/1,000 gat of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.06 0 20 gat XD 8259/1,000 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 XD 8259 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 2-24 ppm XD-8259 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 12-24 ppm XD 8259. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 6-24 ppm XD 8259 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 12-24 ppm XD-8259

cor...nuously to the system. Subsequent Dose: When microbial control is evident, pump a continuous feed

of 2-12 ppm XD-8259 to the system. Badly fouled systems must be cleaned before treatment is begun

FOR CONTROL OF FUNGI AND ALGAE Add 72-236 ppm XD-8259 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 120-236 ppm XD-8259 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 72-236 ppm XD-8259 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 **Continuous Feed Method**

Initial Dose: When the system is noticeably f to the system)

Subsequent Dose: When microbial control is of 72-236 ppm XD-8259 to the system.

Badly fouled systems must be cleaned before

METALWORKING FLUIDS CO This product is effective in metalworking fluid diluted in water at ratios of 1:100-1:4

For controlling for inhibiting) the growth of deteriorate metalworking fluids containing warcollection tank. Additions should be made with Initial or Slug Dose: When the system is : XD-8259/1,000 gal of metalworking fluid to t achieved.

Subsequent Dose: When microbial conti-KD-8259/1,000 gat of metalworking fluid per Ja trol. Additions can be made continuously or in required

ENHANCED OIL RECOV

For controlling slime forming bacteria, sulfice fungi in oil field water, polymer or micellar for other oil field water systems add 2-160 ppm XD 2400 barrels of water! depending on the seve should be made with a metering pump either i Continuous Feed Method

When the system is noticeably fouled, add 20 XD-8259 per 2400 barrels of water) continuoi sh trol is achieved. Subsequently, treat with 2 AD-6259 per 2400 barrels of water) continu control

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Intermittent or Slug Method When the system is noticeably fouled, or to ma 20-160 ppm XD-8259 (1.7-13-7 gal XD-6259 pe tently for 48 hours per day, and from 1-4 time. ding on the seventy of contamination.

Addition of XD-8259 may be made at the free the injection pumps and injection well head-

BEL 86-1336 PRINTED IN JUNE, 1977. S ADDED: PAPER MILLS; INDUSTRIAL G WATER SYSTEMS; ENHANCED OIL HENT ADDED; (3) CONTAINER DISPOSAL S ADDED. 1)



ACCEPTED

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APD 2 1980

UNDER THE FLUE THE INSECTICIDE FUNCICIDE AND RODLUTICIDE ACT FOR ECONOMIC POISON REGISTER



overy systems; controls bacteria, fungi, and algae in industrial rols slime-forming bacteria and fungi in air-washer systems.

by pumping a continuous feed ne system per day. treatment is begun

L COOLING WATER

through and closed-cycle fresh is, canals, and lagoons, add other contaminated area in the g pump; it may be continuous ontamination when treatment

ACTERIA

brough the system, depending

-Jed. add 12-24 ppm XD-8259. sutes. Repeat until control is

vident, add 6-24 ppm XD-8253

- treatment is begun.

D.16d, add 12-24 ppm XD-8259

-ident, pump a continuous feed

Ireatment is begun.

AND ALGAE through the syst: TI, depending

'ed, add 120-236 ppm XD-8259 should be 15 minutes. Repeat

is evident, add 72-236 ppm vaintain control. The minimum

Badly fouled systems must be cleaned before treatment is begun Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 120-236 ppm XD-8259 to the system Subsequent Dose. When microbial control is evident, pump a continuous feed

of 72-236 ppm XD 8259 to the system Badly fouled systems must be cleaned before treatment is begun

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

For controlling for inhibiting) the growth of bacteria and yeasts that may deteriorate metalworking fluids containing water, add XD-8259 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 0.5 gal XD-8259/1,000 gal of metalworking fluid to the system. Repeat until control a act ieved.

Subsequent Dose: When microbial control is evident, and 0.2-0.4 gal XD-8259/1,000 gal of metalworking fluid per day, or as needed to maintain con trol. 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 micellar floods, water-disposal systems, or rr o.l field water systems add 2-160 ppm XD-8259 (0.17-13.7 gal XD-8259 per 2400 barrels of water) depending on the seventy of contamination. Additions should be made with a metering purip either continuously or intermittently **Continuous Feed Method**

When the system is noticeably fouled, add 20-160 ppm XD-8259 (1.7-13.7 get XD-8259 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 2-30 ppm XD-8259 (0.17-2.6 gal XD-8259 per 2400 thrmels of water) continuously or as needed to maintain control.

Intermittent or Slug Method

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When the system is noticeably fouled, or to maintain control of the system, add 20-160 ppm XD-8259 (1.7-13.7 gal XD-8259 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 XD-8259 may be made at the free water knuck outs, before or after the injection pumps and injection well headers

NOTE: For control of bacteria, yeast, and fungi in equeous solutions of biopolymer used in flooding operations, add 30-160 ppm XD 8259 (2 6-13 7 gal XD-8259 per 2440 barrels of water! Additions of XD-8259 should be made with a metering pump immediately after preparation of the aqueous biopalymer solution to prevent loss of viscosity

AIR-WASHER SYSTEMS

ED UNDER NO.

Add 0.003-0.20 gal XD-8259/1,000 gal of water in the system, depending upon the severity of contamination, to control slime-forming bacteria and fungion in dustrial air-washer systems Intermittent or Slug Method

Initial Dose. When the system is noticeably fouled, add 0.006-0.20 gal XD-8259/1,000 gal of water in the system. Repeat until control is achieved Subsequent Dose. When microbial control is evident, add 0.003.0.10 gai XD-8259/1,000 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 0.006-0.20 gal XD-6259/1,000 gal of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0 003-0 10 gal XD-8259/1,000 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 BOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the latel when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABLITY or FITNESS FOR A PARTICULAR PURPOSE, express or retuled, extends to the use of this product contrary to label instruction, or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use



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