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Systems Integration Group, Inc.

Draft Label
July 30, 1979

ACCEPTED
2 NOV 1979
UNDER THE FEDERAL INSECTICIDE FUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER NO. 464-500 SUBJECT TO ATTACHED COMMENTS.

XD-8259 ANTIMICROBIAL

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 INGREDIENT:	
2,2-Dibromo-3-nitrilopropionamide	10%
INERT INGREDIENTS:	90%

E.P.A. Registration No. 464-500-AA
E.P.A. Est. 464-MI-1

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 attention. In case of skin contact, wash with soap and plenty of water. Wash contaminated clothing before reuse.

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 to an unconscious person.

WASH THOROUGHLY AFTER HANDLING

In case of an emergency endangering life or property involving this product, call collect
517-636-4400

TO MAINTAIN PRODUCT QUALITY, STORE AT
TEMPERATURES BELOW 60 °C.
KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE
FOR INDUSTRIAL USE ONLY

NOTICE

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

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. Destroy it by burying it with waste, or by burning it. Stay out of smoke of fumes.

DIRECTIONS FOR USE

NOTE: ADD XD-8259 ANTIMICROBIAL SEPARATELY To The System. Do NOT Mix It With Other Additives, In Order To Avoid Decomposition 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 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 0.30-0.70 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/ton of paper (dry basis) until the slime accumulation is controlled. Addition 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 RECIRCULATING WATER COOLING TOWERS

Add XD-8259 ANTIMICROBIAL 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 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 fouled, 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 control 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
Initial Dose: When the system is noticeably fouled, 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 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 0.10-0.20 gal XD-8259/1,000 gal of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.06-0.20 gal 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 continuously 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 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 product is effective in metalworking fluid concentrates which have been diluted in water at rations of 1:100-1:4.

For controlling (or 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 is achieved.

Subsequent Dose: When microbial control is evident, add 0.2-0.4 gal XD-8259/1,000 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 mycellar floods, water-disposal systems, or other oil field water systems, add 2-160 ppm XD-8259 (0.17-13.7 gal XD-8259 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 20-160 ppm XD-8259 (1.7-13.7 gal 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 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 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 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 30-160 ppm XD-8259 (2.6-13.7 gal XD-8259 per 2400 barrels of water). Additions of XD-8259 should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

AIR WASHER SYSTEMS

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 fungi in industrial 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 gal 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-8259/1,000 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.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes 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.

THE DOW CHEMICAL COMPANY

AND SUBSIDIARIES

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