BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUSES SEVERE BURNS OF EYES

CAUSES SKIN IRRITATION

- **HARMFUL IF SWALLOWED**

[illegible]

ENVIRONMENTAL HAZARDS

[illegible]

MOGUL AG-451

Controls bacteria, fungi and algae in industrial recirculating cooling water systems and in once-through fresh and sea water industrial cooling water systems. Controls sulfate reducing bacteria in air washer systems. Controls bacteria, fungi and yeasts in metal working fluids containing water and enhanced oil recovery systems.

FOR INDUSTRIAL USE ONLY

ACTIVE INGREDIENT [illegible] 5%

INERT INGREDIENTS [illegible] 95%

Weight: 9.6 lbs. gal. (1.15 kg/liter)

EPA Reg. No. 8001-23

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of skin contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists. If swallowed, immediately induce vomiting 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.

IN CASE OF MEDICAL EMERGENCY CALL COLLECT [illegible]

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

[illegible]

STORAGE AND DISPOSAL

[illegible] contaminated water. [illegible]

STORAGE: [illegible]

PESTICIDE DISPOSAL: [illegible]

CONTAINER DISPOSAL: [illegible]

THE MOGUL CORPORATION

[illegible]

NET CONTENTS [illegible]

DIRECTIONS FOR USE

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

NOTE: Add MOGUL AG-451 separately into the system. Do not mix with other treatments in order to avoid decomposition of MOGUL AG-451 due to the high pH of many treatment formulations.

IN RECIRCULATING COOLING WATER SYSTEMS

MOGUL AG-451 aids in the control of bacteria, fungi and algae in evaporative cooling towers, commercial and industrial cooling towers, industrial water scrubbing systems and brewery pasteurizers. For optimum performance add MOGUL AG-451 at a point of uniform mixing. Addition may be continuous or intermittent slug, depending on the severity of contamination when treatment is begun. When a metering pump is not used for addition, care should be exercised in handling. Refer to PRECAUTIONARY STATEMENTS.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

INTERMITTENT (SLUG) METHOD

Initial Dose: When the system is noticeably fouled, add 2.4 - 6.9 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (22 - 44 ppm). Repeat until control is achieved.

Subsequent Dose: When control is evident, add 1.2 - 4.8 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (11 - 44 ppm) every 4 days or as needed to maintain control.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 2.4 - 6.9 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (22 - 44 ppm).

Subsequent Dose: [illegible]

FOR CONTROL OF FUNGI AND ALGAE

INTERMITTENT (SLUG) METHOD

Initial Dose: When the system is noticeably fouled, add 25 - 49 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (221 - 438 ppm). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 15 - 49 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (135 - 438 ppm) daily or as needed to maintain control.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 25 - 49 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (221 - 438 ppm).

Subsequent Dose: [illegible]

[illegible]

IN AIR WASHER SYSTEMS

Add 1.2 - 3.2 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (11 - 28.5 ppm), depending upon the severity of contamination to control sulfate forming bacteria and fungi in the industrial air washing systems. NOTE: For use only in industrial air washer systems that maintain effective mist eliminators. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT (SLUG) METHOD

Initial Dose: When the system is noticeably fouled, add 20 - 32 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (178 - 285 ppm). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 1 - 16 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (9 - 142 ppm) every 2 days or as needed to maintain control.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 20 - 32 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (178 - 285 ppm).

Subsequent Dose: Maintain the level by pumping a continuous feed of 1 - 16 fluid ounces of MOGUL AG-451 per 1000 gallons of water in the system (9 - 142 ppm) per day.

IN METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100 - 1:4.

For controlling or inhibiting the growth of bacteria, fungi and yeasts that may deteriorate metalworking fluids containing water, add MOGUL AG-451 to the fluid concentrate. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is noticeably fouled, add 1.0 - 3.0 gallons of MOGUL AG-451 per 1000 gallons of metalworking fluid in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.4 - 0.8 gallons of MOGUL AG-451 per 1000 gallons of metalworking fluid per day or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

IN ENHANCED OIL RECOVERY SYSTEMS

[illegible]

CONTINUOUS FEED METHOD

[illegible]

INTERMITTENT (SLUG) METHOD

When the system is noticeably fouled or to maintain control of the system, add 3.2 - 25 gallons of MOGUL AG-451 per 3400 barrels of water intermittently for 4 - 8 hours per day or as needed, depending on the severity of contamination.

[illegible]

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 reservoirs, add MOGUL AG-451 to the system. Add water or before any other treatment, mixed well 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 4 - 48 ppm MOGUL AG-451 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 24 - 48 ppm MOGUL AG-451. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 12 - 48 ppm MOGUL AG-451 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 24 - 48 ppm MOGUL AG-451 to maintain control in the system.

Subsequent Dose: When microbial control is evident, add a continuous feed of 4 - 24 ppm MOGUL AG-451 to the system. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 144 - 472 ppm MOGUL AG-451 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 240 - 472 ppm MOGUL AG-451. The minimum treatment interval should be 15 minutes until control is achieved.

Subsequent Dose: When microbial control is evident, add 144 - 472 ppm MOGUL AG-451 to the system daily or as needed to maintain control. The treatment interval should be 15 minutes daily. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 240 - 472 ppm MOGUL AG-451 to the system.

Subsequent Dose: When microbial control is evident, add a continuous feed of 144 - 472 ppm MOGUL AG-451 to the system. Badly fouled systems must be cleaned before treatment is begun.

8591-23
1 1985