

For inhibition and control of microbiological growths (algae, fungi and bacteria) in industrial recirculating cooling water systems and sanitation of air washers, bottle washers and pasteurizers.

ACCEPTED  
8591-3

KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE

## DIRECTIONS FOR USE

### IN RECIRCULATING COOLING WATER SYSTEMS

Begin treatment when the system is in jeopardy of becoming affected or after cleaning systems whose efficiency is already impaired. Badly fouled systems must be cleaned before treatment is begun.

For optimum performance, add MOGUL A-492 to the cooling tower basin, or at some other point of uniform mixing. MOGUL A-492 should be applied by the Intermittent (Slug) Method.

### INTERMITTENT (SLUG) METHOD

**INITIAL DOSE.** When the system is noticeably fouled, add 5 - 10 ounces of MOGUL A-492 per 1000 gallons of water in the system. After 30 minutes, test the system water with a chlorine test kit. Repeat the dosage until at least 1.0 ppm of available chlorine residual is detected in the system for a period of 4 hours.

**SUBSEQUENT DOSE.** On a daily basis, add 2 - 5 ounces of MOGUL A-492 per 1000 gallons of water in the system. Test the system water with a chlorine test kit and repeat the dosage as necessary to obtain at least 1.0 ppm of available chlorine residual in the system for a period of 4 hours.

One ounce of MOGUL A-492 per 1000 gallons of water will provide approximately 2.3 ppm of available chlorine.

## HANDLING PRECAUTIONS

### WARNING

KEEP OUT OF REACH OF CHILDREN

HARMFUL IF SWALLOWED

STRONG OXIDANT

MAY PRODUCE CHEMICAL BURNS

Do not get on skin or in eyes. Do not mix with other material or chemicals. Mix only with water. Contamination of this product may cause a fire or the release of hazardous gases.

**FIRST AID:** In case of skin and eye contact, flush with plenty of water. If skin irritation persists, get medical attention. If swallowed, give milk, water or egg whites. Call a physician immediately. Never give anything by mouth to an unconscious person.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into a stream, ponds or public water. Apply this product only as specified on this label.

WASH THOROUGHLY AFTER HANDLING

DO NOT REUSE EMPTY CONTAINER

DESTROY WHEN EMPTY

### SANITIZATION OF AIR WASHERS, BOTTLE WASHERS AND PASTEURIZERS

Before applying MOGUL A-492, thoroughly scrub and clean all parts and equipment surfaces involved. After cleaning, soak equipment in a solution containing 8.7 ounces of MOGUL A-492 per 100 gallons of water (approximately 200 ppm available chlorine) for 2 minutes. Spray or swab vertical surfaces and those parts which cannot be soaked with a solution containing 2.7 pounds of MOGUL A-492 per 100 gallons of water (approximately 1000 ppm available chlorine). In either application, thoroughly rinse all treated surfaces with potable water after 2 minutes contact.

### NOTICE

*The Mogul Corporation warrants that this product conforms to its description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions for use but neither this warranty nor any other warranty of "Merchantability" or "Fitness For A Particular Purpose", expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to The Mogul Corporation, and the buyer assumes the risk of any such use.*

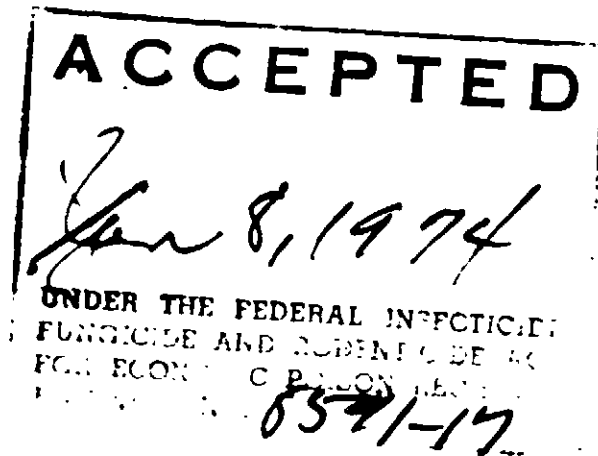
### INGREDIENTS

ACTIVE INGREDIENT:

Calcium hypochlorite . . . . . 100%

INERT INGREDIENTS:

(Available Chlorine) . . . . . 20%



8591-17

# MOGUL AG-452

For control of bacteria in cooling towers and control of bacteria, yeasts and fungi in paper mills.



KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE

## DIRECTIONS FOR USE

**NOTE:** Add MOGUL AG-452 separately to the system. Do not mix with other treatments, in order to avoid decomposition of MOGUL AG-452 due to the high pH of many treatment formulations.

### IN COOLING TOWERS

For optimum performance, add MOGUL AG-452 to the cooling tower basin, or at some other 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 HANDLING PRECAUTIONS below.

Badly fouled systems must be cleaned before treatment is begun.

### INTERMITTENT (SLUG) METHOD

**INITIAL DOSE:** When the system is noticeably fouled, add 0.0048 - 0.0095 gallons of MOGUL AG-452 per 1000 gallons of water in the system (6-12 ppm). Repeat at 6 to 24 hour intervals until control is achieved.

**SUBSEQUENT DOSE:** When control is evident, add 0.0024 - 0.0095 gallons of MOGUL AG-452 per 1000 gallons of water in the system (3-12 ppm) every 4 to 7 days, or as necessary to maintain control.

### CONTINUOUS FEED METHOD

**INITIAL DOSE:** When the system is noticeably fouled, add 0.0048 - 0.0095 gallons of MOGUL AG-452 per 1000 gallons of water in the system (6-12 ppm).

**SUBSEQUENTLY** maintain this level by adding a continuous feed of 0.00048 - 0.0048 gallons of MOGUL AG-452 per 1000 gallons of water (0.6-6.0 ppm) lost from the system by bleedoff.

## HANDLING PRECAUTIONS DANGER

KEEP OUT OF REACH OF CHILDREN  
CAUSE SEVERE BURNS OF EYES  
MAY BURN THE SKIN

MAY BE HARMFUL OR FATAL IF SWALLOWED

Do not get in eyes, on skin or clothing  
Wear chemical worker's 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 by sticking finger down the throat or by giving soapy or strong salty water to drink. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds or public water. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

WASH THOROUGHLY AFTER HANDLING

DO NOT REUSE EMPTY CONTAINER. DESTROY IT BY BURYING IT WITH WASTE, OR BY BURNING IT. STAY OUT OF SMOKE OR FUMES.

## INGREDIENTS

ACTIVE INGREDIENTS:  
2,2 - Dibromo-3 nitrilopropionamide . . . . . 20%  
INERT INGREDIENTS: . . . . . 80%

WEIGHT: 10.5 lbs. per gallon (1.25 kgs. per liter)

EPA Reg. No. 8591-17

## IN PAPER MILLS

For the control of bacterial, fungi, and yeast growths in pulp, paper and paperboard mills, add MOGUL AG-452 at the rate of 1.83 - 6.10 fluid ounces per 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 metering pump at a location that will ensure uniform distribution of MOGUL AG-452 in the mass of fiber and water, such as the heaters, jordan inlet or discharge, broke chests, furnish chests, save-alls and white-water tanks.

**HEAVILY FOULED SYSTEMS** should be boiled out, then treated with 1.83 - 4.27 fluid ounces of MOGUL AG-452 per ton of paper (dry basis), as necessary for control

**MODERATELY FOULED SYSTEMS** should be treated continuously with 4.27 - 6.10 fluid ounces of MOGUL AG-452 per ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 1.83 - 4.27 fluid ounces of MOGUL AG-452 per 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 1.83 - 4.27 fluid ounces of MOGUL AG-452 per ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

**NOTE:** This product should not be used in the production of paper or paperboard that comes in contact with food.

Sold By:

**THE MOGUL CORPORATION**

MOGUL CORPORATION, 1000 WEST 10TH AVENUE, DENVER, COLORADO 80202  
TELEPHONE: 333-1111  
FACSIMILE: 333-1111  
CABLE: MOGUL