Aqua Treat

TECHNICAL DATA

MBC 229

CONTROLS SLIME IN RECIRCULATING COOLING WATER SYSTEMS

Initial Dosage

190 ppm (.21 gallons or 1.7 lbs) of **MBC 229** per 1000 gallons water in system (shock treatment). Repeat until control is achieved.

Maintenance Dosage

1. Maintain a continuous feed (generally for open systems of 0.06 - 0.12 gallons (0.45 - 0.90 pounds) of **MBC 229** to maintain 60-120 ppm per 1000 gallons of water lost by blowdown.
2. Intermittent or slug feed. Apply 0.06 gallons or 0.45 pounds of **MBC 229** per 1000 gallons of water in the system every 3 or 4 days, or as needed to maintain control.
3. Begin treatment when the system is in jeopardy of becoming affected or after cleaning systems whose efficiency is already impaired.

Features

- Helps keep water systems clear and free of visible algal and fungal slimes.
- **MBC 229** can be used as a supplemental microbiocide with chlorine.
- When **MBC 229** is used as directed, it will aid in controlling and/or preventing the development of algal and fungal slime, which are often the cause of reduced capacity or equipment shutdown.
- **MBC 229** is compatible with virtually all corrosion inhibitors. **MBC 229** at use dilution is non-corrosive to inanimate hard surfaces.

Packaging: 55 gallon drums/350 gallon tote tanks

DIRECTIONS FOR USE

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

NOTE: Add separately to the system. Do not mix and with other additives to avoid any possible incompatibilities.
Water treated with this product should not be used for food processing, irrigation or in the manufacture of paper used for food packaging.

OPEN RECIRCULATING COOLING SYSTEMS:
INITIAL DOSE: When microbiological stress are evident, apply 4.7 to 9.3 fluid ounces per 1000 gallons of water in the system. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

SUBSEQUENT DOSE: When microbiological control is evident, apply 3.1 to 6.2 fluid ounces per 1000 gallons of water in the system once per week, or as needed to maintain control.

FEEDING: Should be fed at full strength in the cooling tower basin at point of maximum water circulating. Tower blood off valves should be closed to permit a retention time of 4 hours.

PAPER MILLS: Dosage will vary from 2.4 to 4.8 fluid ounces per ton of finished paper depending on the type of stock, complexity of the system, quality of raw water, and type and degree of contamination.

FEEDING: May be dripped continuously from the drum or fed by suitable chemical pumps such as adjustable proportioning types, variable speed, positive displacement type, or by the reciprocating type. This product should be fed as early as possible in the system and with points including the hydrapulper, machine chester broke system.

MBC 229

(FOR INDUSTRIAL USE ONLY)

ACTIVE INGREDIENTS:

n-Alkyl (C_{12} 60%, C_{14} 30%, C_{16} 9%, C_{18} 1%) dimethyl benzyl ammonium chloride	25.00%
Bis (tri-n-butyltin) oxide	4.90%
INERT INGREDIENTS:	70.10%

KEEP OUT OF REACH OF CHILDREN

DANGER

(See right panel for additional precautionary and practical treatment statements.)

EPA REG. NO. 67371-84-68539
EPA EST. NO. 68052-IN-01

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FOR EMERGENCY CALL: CHEMTREC 1-800-424-9300

STATEMENT OF PRACTICAL TREATMENT
In case of eye contact, wash thoroughly with soap and water. For eyes, flush with water for 15 minutes and get prompt medical attention. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER
Corrosive. Causes eye damage and severe skin irritation. May be absorbed through the skin. Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Remove and wash contaminated clothing and wash before reuse. Harmful or fatal if swallowed. Avoid contamination of food.
ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
PHYSICAL AND CHEMICAL HAZARDS
This product is a cationic. Do not mix with soap or anionic materials.

STORAGE AND DISPOSAL

This product must be kept under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty containers.
PESTICIDE DISPOSAL
Pesticide wastes are acutely hazardous. 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
PLASTIC CONTAINERS
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. 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 in a sanitary landfill or by incineration if allowed by State and local authorities. If liner is contaminated and cannot be cleaned, dispose of in the same manner.
METAL CONTAINERS
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. 051888

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MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

DISTRIBUTORS NAME AND ADDRESS

AQUATREAT, INC.
P.O. BOX 789
LOGANVILLE, GA. 30249

PRODUCT NAME: MBC 229
CHEMICAL FORMULA: PRINTED ON LABEL
CHEMICAL FAMILY: NA-MIXTURE

EMERGENCY TELEPHONE NO 800-424-9300

TRADE NAME: QUATERNARY AMMONIUM COMPOUND AND ORGANO TIN COMPOUND

II. HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS INGREDIENTS	%	OSHA PEL OR OSHA TLV	CAS NO.
N-ALKYL (C14, 60%, C16 30%, C12, 5%, C18 5%) DIMETHYL BENZYL AMMONIUM CHLORIDE	25.0%	NO PEL OR TLV HAS BEEN ESTABLISHED	8001-54-5
BIS (TRI-N-BUTYLTIN) OXIDE	4.50%	NO PEL OR TLV HAS BEEN ESTABLISHED	56-35-9
ETHANOL	<10%	TLV: 1000 PPM PEL: 1880 MG/CUBETER	64-17-5

III. PHYSICAL DATA

BOILING POINT (F)	>212(F)	SPECIFIC GRAVITY (H2O=1)	.982
VAPOR PRESSURE	NE	PERCENT VOLATILE BY WEIGHT (%)	NA
VAPOR DENSITY	NE	MELTING OR FREEZING POINT (F)	NA
SOLUBILITY IN WATER	COMPLETE	PH	APPROXIMATELY 8.8
APPEARANCE AND ODOR	CLEAR LIQUID WITH A LIGHT AROMATIC ODOR		

IV. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED) 145F(TCC) FLAMMABLE LIMITS IN AIR, % VOL. LOWER- N/E UPPER- N/E
AUTO IGNITION TEMPERATURE NE EXTINGUISHER MEDIA AS USED ON SURROUNDING FIRE

SPECIAL FIRE-FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED WHEN MBC 229 IS EXPOSED TO FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: WATER MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. AVOID BREATHING FUMES FROM FIRE EXPOSED MATERIAL. PREVENT WATER WAY CONTAMINATION.

V. PHYSICAL HAZARDS

STABILITY: STABLE CONDITIONS TO AVOID: OPEN FLAME
MATERIALS TO AVOID: OXIDIZERS AND ACIDS
HAZ. POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: NONE
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, TIN OXIDES

VI. HEALTH HAZARDS

ACUTE IRRITANT CHRONIC NONE
SIGNS AND SYMPTOMS OF EXPOSURE CONTACT WITH MBC 229 WILL PRODUCE LOCAL SKIN IRRITATION AND SEVERE EYE IRRITATION WITH POSSIBLE INJURY.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PERSONS WITH PRE-EXISTING SKIN, EYE O RESPIRATORY DIFFICULTIES MAY BE AGGRAVATED BY EXPOSURES TO MBC 229.
CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN I.A.R.C. NO NATIONAL TOXICOLOGY PROGRAM N

VII. EMERGENCY AND FIRST AID PROCEDURES

TREAT SYMPTOMATICALLY AS OUTLINED BELOW:
INHALATION: MOVE SUBJECT TO FRESH AIR. IF BREATHING DIFFICULTY OCCURS, CONTACT A PHYSICIAN.

SKIN: WASH SKIN THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING SEEK MEDICAL ATTENTION IF IRRITATION OCCURS.