

H-510-M Microbiocide

INDUSTRIAL MICROBIOCIDE FOR USE IN RECIRCULATING WATER COOLING TOWERS, AIR WASHER SYSTEMS, OILFIELD INJECTION WATERS, ELECTRODEPOSITION SYSTEMS AND PAPERMILL SLIMICIDE.

FIRST AID

IF SWALLOWED: Do not induce vomiting. Drink promptly a large quantity of egg whites or gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Never give anything by mouth to an unconscious person.

IF INHALED: Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician.

IF ON SKIN: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician.

NOTE TO PHYSICIAN: Probably mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one.....1.15%

2-Methyl-4-isothiazolin-3-one.....0.35%

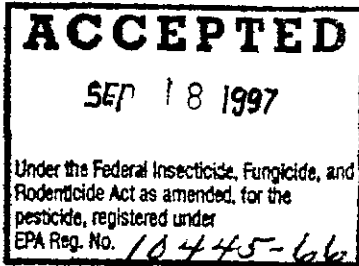
INERT INGREDIENTS.....98.50%

TOTAL.....100.00%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

See Side Panel for Additional Precautionary Statements

- EPA Registration No. 10445-66
- EPA Establishment No. 10445-PA-01
- EPA Establishment No. 10445-CA-01
- EPA Establishment No. 10445-TX-01
- EPA Establishment No. 69891-GA-1



Calgon Corporation
Calgon Center
Pittsburgh, PA 15230

[Handwritten scribbles and marks]

2 7 4

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER!

CORROSIVE. CAUSES EYE DAMAGE AND SKIN BURNS.

CAUSES ALLERGIC SKIN REACTION.

HARMFUL IF INHALED.

MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN.

Do not get in eyes, on skin, on clothing.

Wear goggles or face shield and rubber gloves when handling.

Avoid breathing vapor or mist.

Avoid contamination of food.

Do not take internally.

Wash thoroughly after handling.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminating System (NPDES) permit and permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

PROHIBITIONS:

This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide 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:

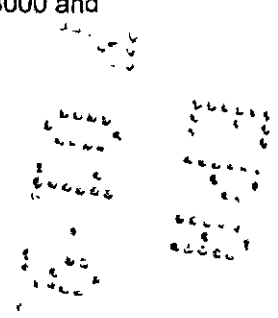
METAL CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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.

GENERAL:

Consult federal, state or local disposal authorities for approved alternative procedures.

For additional information regarding incidents involving human and environmental exposure, call 412-777-8000 and ask for the Health and Environmental Affairs Department.



DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

INDUSTRIAL RECIRCULATING COOLING WATER TOWERS

For the control of bacteria, algae and fungi add H-510-M Microbiocide to the tower basin, distribution box or some other point to insure uniform mixing.

Initial Dose: When the system is noticeably fouled, apply 148 to 883 ppm H-510-M Microbiocide (1.26 to 7.46 pounds or 19 to 113 fluid ounces of H-510-M Microbiocide per 1000 gallons of water in the system). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 35 to 219 ppm H-510-M Microbiocide (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of H-510-M Microbiocide per 1000 gallons of water in the system) weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

AIR WASHER SYSTEMS

Add to the air washer sump or chill water sump to insure uniform mixing, 35 to 883 ppm H-510-M Microbiocide (0.3 to 7.46 pounds or 4.5 to 113 fluid ounces of H-510-M Microbiocide per 1000 gallons of water in the system) depending on the severity of contamination to control bacteria, fungi and algae which cause fouling in industrial air washer systems.

ELECTRODEPOSITION SYSTEMS

For control of bacteria and fungi in Electrodeposition Systems such as automotive or industrial equipment systems, slug feed H-510-M Microbiocide at a rate of 1 gallon per 1000 gallons of paint in the system (1000 ppm) as needed, depending upon results of cultures taken from the system.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, apply 148 to 883 ppm H-510-M Microbiocide (1.26 to 7.46 pounds or 19 to 113 fluid ounces of H-510-M Microbiocide per 1000 gallons of water in the system). Repeat until control is achieved.

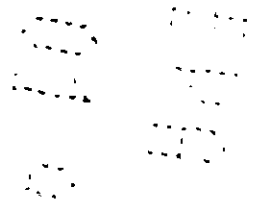
Subsequent Dose: When microbial control is evident, add 35 to 219 ppm H-510-M Microbiocide (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of H-510-M Microbiocide per 1000 gallons of water in the system) weekly or as needed to maintain control.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, apply 148 to 883 ppm H-510-M Microbiocide (1.26 to 7.46 pounds or 19 to 113 fluid ounces of H-510-M Microbiocide per 1000 gallons of water in the system).

Subsequent Dose: Maintain this treatment level by adding a continuous feed or 35 to 219 ppm H-510-M Microbiocide (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of H-510-M Microbiocide per 1000 gallons of makeup water).

Badly fouled systems must be cleaned before initial treatment.



OILFIELD INJECTION WATERS

For the control of slime-forming and sulfate-reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids, drilling, fracturing and completion fluids, slug treat with 67-332 ppm H-510-M Microbiocide depending on the contamination.

Initial Dose: Add 116-332 ppm H-510-M Microbiocide (6.9-13.9 gallons of 58.0-116.8 H-510-M Microbiocide per 1,000 barrels of water) at a point in the system where it will be uniformly mixed. Repeat treatment after three days or as needed until control is achieved.

Subsequent Dose: Add 67-166 ppm H-510-M Microbiocide (2.8-6.9 gallons or 23.5-58.0 lbs. H-510-M Microbiocide per 1,000 barrels of water) every seven days or as needed to maintain control.

NOTE: For use in industrial air washer systems that maintain effective mist eliminating components.

PAPERMILL SLIMICIDE

H-510-M Microbiocide is recommended for the control of bacterial and fungal slime in the production of paper. This product is approved by the Food and Drug Administration for use as a slimicide (21 CFR 176.300) and as an antimicrobial agent for fillers, binders, pigment slurries, sizing solutions, and coating formulations used in the manufacturing of paper and paperboard that contacts food. (21 CFR 176.170)

Point of Addition: H-510-M Microbiocide should be added to a point in the system to insure mixing such as the beater, hydropulper, or fan or broke storage pumps.

DOSAGE: H-510-M Microbiocide is recommended for the control of bacteria and fungi for water-based paper coating formulations and additives used in the manufacture of paper and paperboard such as fillers, binders, clay slurries, calcium carbonate slurries, titanium dioxide slurries, pigment slurries, and sizing solutions. Add 0.43-1.65 lbs. of H-510-M Microbiocide (195-750 g) to each 1000 lbs. (453 kg) of fluid to provide 425 to 1675 ppm of product (6.25 to 25 ppm active isothiazolin). As a papermill slimicide, apply 0.44 to 1.5 lbs. (7-23 fl.oz.) of H-510-M Microbiocide per ton (dry basis) of pulp or paper produced as a slug dose. If needed, repeat daily. Badly fouled systems should be cleaned before initial treatment.

H-510-M Microbiocide weighs 8.4 lbs. per gallon.

WARRANT: Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label 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.