

PH 31 55195-5

10/5

COLDCIDE-25

GLUTARALDEHYDE / MICROBIOCIDAL CONCENTRATE

WATER TREATMENT MICROBIOCIDAL FOR BUILDING AND INDUSTRIAL COOLING TOWERS, PULP AND PAPERMILL SYSTEMS AND OIL FIELD WATER FLOODS OR SALT WATER DISPOSAL SYSTEMS.

ACTIVE INGREDIENT:

GLUTARALDEHYDE	25.00%
INERT INGREDIENTS	75.00%
TOTAL	100.00%

KEEP OUT OF REACH OF CHILDREN
DANGER

STATEMENT OF PRACTICAL TREATMENT

In case of eye contact, flush with water immediately for at least 15 mins. Seek medical attention. If on skin, wash with water thoroughly. Seek medical attention. If swallowed, drink at least two glasses of water. do not induce vomiting. Call for medical help immediately. If inhaled, remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician. Wash contaminated clothing before reuse.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

WASH THOROUGHLY AFTER HANDLING.

PHYSICAL PROPERTIES

Specific Gravity @20/20'C	1.016	Soluble in Water at 20'C	
Freezing Point	-21'C	Complete	
Vapor Pressure at 20'C	15mm Hg	pH at 25'C	3.0 to 4.5

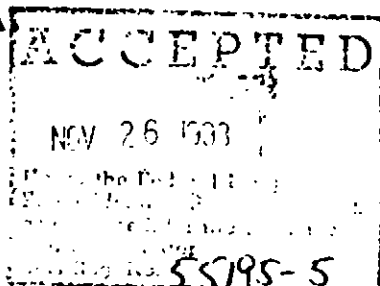
NET CONTENTS: 55 GALLONS

EPA REG. NO. 55195-5

EPA EST. NO. 8133-TX01-01

COLDCIDE-25 - Trademark of
COLCIDE INC.
11500 WEST HILL DRIVE
ROCKVILLE, MD 20852

MADE IN U.S.A.



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PRECAUTIONARY STATEMENTS**DANGER**

Hazard to Humans and Domestic Animals
Keep out of Reach of Children

CORROSIVE. Causes eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear safety glasses and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food. Avoid reuse of unwashed disinfectant soaked gloves. Avoid inhalation - use in ventilated area.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge effluent containing this active ingredient 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.

STORAGE AND HANDLING

COLDCIDE-25 solutions are corrosive to many commonly used materials such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic lined steel, polyethylene, stainless steel or reinforced epoxy-plastic equipment. This product freezes at about -21°C (-6°F). Therefore, unless storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F can be tolerated, but preferred maximum storage temperature is about 80°F. A stainless steel centrifugal pump is suggested for transfer service. Asbestos is suitable for gaskets and packing.

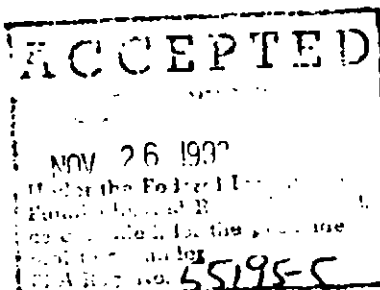
STORAGE AND DISPOSAL:

Do not contaminate water, food, or feed by storage or disposal.

Store in cool, well ventilated area. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes can not be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal: Containers should be triple rinsed (or equivalent). Then, offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities.

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DIRECTIONS FOR USE:

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

GENERAL CLASSIFICATION

To control algae, bacterial slimes, and sulfur reducing bacteria use ColdCide-25 Microbiocide as directed. Frequency of microbiocide addition depends on many factors. To optimize use of ColdCide-25 Microbiocide use the following:

COOLING TOWERS**AIR WASHERS AND RECIRCULATING COOLING WATER SYSTEMS:**

ColdCide-25 Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with ColdCide-25. Under these conditions, blowdown should be discontinued for up to 24 hours.

INTERMITTENT (SLUG DOSE) METHOD

1. Initially use 20 to 400 ppm ColdCide-25 Microbiocide (0.02 to 0.40 gallons ColdCide-25 per 1000 gallons of water to be treated). Repeat the initial dose every seven days or increase the frequency, until control is achieved.

2. When above treatment is successful, use 10 to 200 ppm ColdCide-25 Microbiocide (0.01 to 0.20 gallons per 1000 gallons of water to be treated) to maximize efficiency. Repeat weekly as needed. Badly fouled systems must be cleaned before treatment is begun.

Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages.

CONTINUOUS FEED METHOD

3. Initial dose when system is noticeably fouled is 20 to 400 ppm (0.02 to 0.40 gallons) ColdCide-25 per 1000 gallons of water in the system.

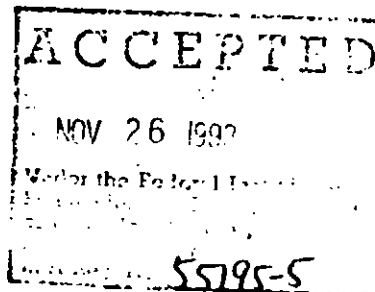
4. Subsequent dose to maintain this treatment level is a continuous feed of 10 to 50 ppm (0.01 to 0.05 gallons) ColdCide-25 per 1000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

HEAT TRANSFER SYSTEMS

(Evaporative condensers, Hydrostatic Sterilizers and Retorts and Pasteurizers and Warmers)

ColdCide-25 Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

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RIGHT PANEL - COLDCIDE-25

REVISED 09-20-1993

ENHANCED OIL RECOVERY: Inject ColdCide-25 directly from drum to control bacteria following injection of miscible solvent, oil displacement chemicals or carbon dioxide. Dosage may be 25 to 5000 ppm. (Adjust metering flow rate to deliver 0.1 to 21.0 gallons ColdCide-25 to 100 barrels of diluent). The lower concentration for continuous treatment, the higher for periodic batch.

For repressurizing depleted oil or gas zones continuous injection of ColdCide-25 at 25 to 75 ppm (0.1 to 0.3 gallons ColdCide-25 per 100 barrels diluent) into fresh or salt water should be adequate.

WATER FLOODS: ColdCide-25 Microbiocide should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank.

Initial Treatment: When the system is noticeably contaminated add 100 - 400 ppm ColdCide-25 Microbiocide (0.10 to 0.40 gallons ColdCide-25 per 1000 gallons flood water) weekly. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 20 to 200 ppm ColdCide-25 Microbiocide (0.02 to 0.20 gallons ColdCide-25 per 1000 gallons flood water) weekly, or as needed to maintain control.

DRILLING MUDS: ColdCide-25 Microbiocide should be added to a drilling fluid system at a point of uniform mixing such as a circulating tank.

Initial Treatment: Add 50 - 2000 ppm ColdCide-25 Microbiocide (0.2 to 8.4 gallons ColdCide-25 per 100 barrels of fluid) to freshly prepared drilling fluid depending on severity of contamination.

Maintenance Dosage: As the total volume of the system increases due to increased well depths, maintain 50 - 2000 ppm ColdCide-25 Microbiocide level by adding 0.2 to 8.4 gallons of ColdCide-25 per 100 gallons of additional fluid, or as needed, depending on severity of contamination.

COMPLETION AND WORKOVER FLUIDS: ColdCide-25 Microbiocide should be added to a completion and workover fluid at a point of uniform mixing such as circulating tank. Add 50 - 2000 ppm ColdCide-25 (0.2 to 8.4 gallons ColdCide-25 per 100 barrels of fluid) to freshly prepared fluid depending on severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all workover fluid. Well should be ready for productive use.

PACKER FLUIDS: ColdCide-25 Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 2000 ppm ColdCide-25 Microbiocide (0.2 to 8.4 gallons ColdCide-25 per 100 barrels of fluid) to a freshly prepared fluid depending on severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

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2 BACK PANEL - COLDCIDE-25

REVISED 09-20-1993

PULP AND PAPERMILL SYSTEMS: For slime (bacterial and fungal) control in pulp, paper and paperboard mills, use 12 to 16 fluid ounces per 1000 gallons of water in the recirculating white water system (20 to 30 ppm actives). Product may be added anywhere in the system prior to the sheet forming area.

When the above treatment is successful, use 2 to 4 fluid ounces per 1000 gallons of water to maximize efficiency. Repeat weekly or as needed.

IN A CHEMICAL EMERGENCY CALL CHEMTREC: 1-800-424-9300

BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET

HEALTH	3
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	_____

