

B-474 will control algae and bacterial slimes found in recirculating cooling tower waters and oil field water flood.

B-474 helps clean and removes slime debris from cooling and flooding system surfaces. When used in slug doses, no other microbicide is required.

B-474 is economical to use because it is concentrated. It should be handled with care.

Precautionary Statements

Hazards to Humans and domestic animals

DANGER:

Keep Out of Reach of Children. Corrosive. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge treated effluent into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact your regional Office of the Environmental Protection Agency.

PHYSICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

OPEN DUMPING IS PROHIBITED

DO NOT REUSE EMPTY CONTAINER

PESTICIDE DISPOSAL

PESTICIDE THAT CANNOT BE USED, OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES.

CONTAINER DISPOSAL

DISPOSE OF IN AN INCINERATOR OR LANDFILL APPROVED FOR PESTICIDE CONTAINERS. BURY IN A SAFE PLACE OR RETURN TO DRUM RECONDITIONER.

GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING

ACCEPTED with COMMENTS
EPA Letter Dated

MAR 22 1984

B-474

Twin-Chain Quaternary Ammonium Compound Concentrate Water Treatment Microbicide for Building and Industrial Cooling Towers and Oil Field Water Flood or Salt Water Disposal Systems

Active Ingredients:

Alkyl (C ₁₄ , 50%; C ₁₂ , 40%, C ₁₆ , 10%)	
dimethyl benzyl ammonium chloride	20.0%
Octyl decyl dimethyl ammonium chloride	15.0%
Dioctyl dimethyl ammonium chloride	7.5%
Didecyl dimethyl ammonium chloride	7.5%

Inert Ingredients 80.0%
100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

Statement of Practical Treatment

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

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.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No.

EPA Establishment No.

Net Weight

Net Volume

H O CHEMICAL, INC. (80) 589-2290
P.O. BOX 9931 * Bakersfield, CA 93389-1931

51032
BEST DOCUMENT AVAILABLE

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

To control algae and bacterial slimes, use B-474 as directed. For best results, slug feed. The frequency of addition of microbicide needed depends on many factors. To optimize your use of B-474 follow this procedure.

Recirculating Cooling Towers

- Initially use 8 fluid ounces per 1000 gallons of water to be treated (20 ppm active quaternary). Should the above dosage not give satisfactory results, use 8 fluid ounces per 1000 gallons of water. Repeat the initial dose every seven days or increase the frequency if needed.
- When the above treatment level is successful, use 2 to 3 fluid ounces per 1000 gallons of water to maintain efficiency. Repeat weekly as needed. Should slime develop again, go back to initial dosage.

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

Dilute the appropriate amount of B-474 in 1 or 2 gallons of water, then add to the tower. Note, this product weighs 7.00 lbs per gallon (at 20°C).

Should tower be heavily fouled, a pre-cleaning is required.

Oil Field Water Flood or Salt Water Disposal Systems: (Do not apply in Marine and Estuarine Oil Fields)

- For the control of slime forming and sulfate reducing bacteria in oilfield water flood or salt water disposal systems, add 5-10 ppm (active) B-474 (1 1/2 - 3 gallons per 3000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.
- For intermittent use, dose at a rate of 5-20 ppm (active) B-474 (1 1/2 - 6 gallons per 3000 barrels of water) for 4-8 hours per day, one to four times a week as needed to maintain control. Add B-474 directly from the drum with the proper type of metering equipment. This product weighs 7.00 lb/gallon (at 20°C).

For sale for use and storage by maintenance personnel only.

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (MH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE 22 MAR 1984
	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended)</i>	NAME OF PESTICIDE PRODUCT	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>		
<input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

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3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(a). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

John H. Lee
for

John H. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

RD/DIS:DCR-04824:J.Lee:eg:Raven:557-2226:RD-02:3/12/84:Del.3/27/84

BEST DOCUMENT AVAILABLE