

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

DANGER: KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes eye damage and skin irritation. 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 discharge treated effluent into lakes, streams, ponds, or public water unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the EPA.

Do not allow water that contains this pesticide to come in contact with grass or plants. Do not use in drinking water or in swimming pools. Do not apply in marine or estuarine oil fields.

DIRECTIONS FOR USE

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

Bio-Guard CWT-100 Algicide may be metered, pumped, gravity fed or poured from a suitable container into the treatment system. Centrifugal injection, piston or diaphragm pumps are satisfactory. Algicide feed pumps, meters and feed lines may be stainless steel, neoprene, glass, plastic or unpigmented fiberglass.

RECIRCULATING WATER COOLING SYSTEM: Bio-Guard CWT-100 Algicide is a product formulated to provide control of the growth of algae and slime in recirculating water cooling systems and evaporative condensers. It is ideal for use in cooling water for thermal processing and pasteurizing operations in dairies, breweries, soft drink and food canning plants.

If heavy growths are present, clean the system before initial treatment. If growth is absent or just noticeable, proceed with the initial dose. Add all treatments directly to the sump.

Initial Dose: When the system is fouled, apply a dose of 4 fluid ounces per 100 gallons of water in the system. Repeat daily until control is achieved.

Subsequent Dose: When algae control is evident, add 2 fluid ounces per 100 gallons water in the system every 7 days (weekly), or as needed to maintain control. Badly fouled systems may be manually or chemically cleaned before treatment is begun.

Continuous Feeding: This product may be continuously fed into open recirculating cooling system. The feed rate into the make-up water is calculated from the operational cycles of concentration of the tower as follows:

2 Cycles of Concentration 0.57 CWT-100 required per 100 gallons of make-up water

This feed should achieve and maintain the recommended 2 oz/100 gallon treatment level in the recirculating water.



**BIO-GUARD
CWT-100
ALGICIDE**

Controls Slime in Recirculating Water Cooling Towers

Controls Anaerobic Sulfate-Reducers and Aerobic Bacteria in Oil Field and Petrochemical Water Injection Systems

ACTIVE INGREDIENTS:

Alkyl (C ₁₂ , 61%; C ₁₄ , 23%; C ₁₆ , 11%, C ₈ & C ₁₀ , 2.5%; C ₁₈ , 2.5%) dimethyl benzyl ammonium chloride	9.0%
Tributyltin neodecanoate	5.0%
Alkyl (C ₁₄ , 58%; C ₁₆ , 28%, C ₁₂ , 14%) dimethyl benzyl ammonium chloride	4.5%
Alkyl (C ₁₄ , 90%; C ₁₆ , 5%; C ₁₂ , 5%) dimethyl ethyl ammonium bromide	1.5%
INERT INGREDIENTS:	80.0%
TOTAL INGREDIENTS	100.0%

FOR INDUSTRIAL AND COMMERCIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN
DANGER**

(See other precautions on back panel.)

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.

Manufactured by **BIO-LAB, INC.**
Decatur, Georgia

EPA Reg. No. 5185-168
EPA Est. No. 5185-GA-1

Net Contents: 55 gallons
APR 20 1983

Under the Pesticide Control Act as amended, this product is registered under EPA Reg. No. 5185-168

OIL FIELD AND PETROCHEMICAL SUBSURFACE INJECTION SYSTEMS:

Bio-Guard CWT-100 is recommended for control of anaerobic sulfate-reducing bacteria and aerobic heterotrophic bacteria in subsurface injection systems, such as secondary and tertiary oil recovery systems.

Biological requirements vary from site to site. Areas frequently requiring control are raw water sources, mixing tanks, screens and the formation itself. The primary treatment location will vary from site to site depending on the site problems, water flood treatment methods and equipment. The Algicide should be applied where it will disperse most rapidly and uniformly to the desired area of treatment. This may be at screens, filters, pumps, mixing tanks, storage tanks, to pre-filter water, to the water as it is pumped to the formation or it may be pumped directly to the formation.

Bio-Guard CWT-100 may be used continuously or in slug doses. An effective slug dose is 40 ounces per 1000 gallons water in the system (320 ppm). The slug dose should be applied for three to eight hours daily until the desired level of control is achieved. A continuous feed of 10 ounces per 1000 gallons (78 ppm) would also give effective control of most heterotrophic bacteria and anaerobic sulfate-reducers. Where one is concerned only with anaerobic sulfate reducers the above concentrations may be reduced by one-half to one-third.

Badly fouled systems may be slug treated to get initial control followed by continuous feed to maintain control. Use the above lower level treatment for anaerobic sulfate-reducers and the higher level treatment for heterotrophic bacteria.

STORAGE AND DISPOSAL

1. PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.

2. PESTICIDE DISPOSAL: PESTICIDE OR RINSATE 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.

3. CONTAINER DISPOSAL: (a) RESEAL CONTAINER AND OFFER FOR RECONDITIONING, OR (b) TRIPLE RINSE (OR EQUIVALENT) AND OFFER FOR RECYCLING, RECONDITIONING OR DISPOSAL IN APPROVED LANDFILL, OR BURY IN A SAFE PLACE.

4. GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATE METHOD.

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Bio-Ial Inc.
P.O. Box 1422
Decatur, GA 30031

Attention: Mr. Alan C. Sumner

Gentlemen:

Subject: Bio-Guard CW-100 Algicide
EPA Registration No. 5105-100
Your Submission of March 11, 1983

The amendment referred to above, submitted in connection with registration under FIFRA is acceptable, provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Since the total label is considered the "Front Panel" the signal word "Danger" must be 18 point Bodoni Bold, and the phrase "Keep Out of Reach of Children" must be 12 point Bodoni Bold. See type size requirement attachment.
 - b. In the 6th paragraph left panel, replace the word "Ideal" with either word "excellent" or "good."
 - c. Add the words "and systems" to the description "controls slurr in recirculation water cooling towers and systems."
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

CONCURRENCES								
SYMBOL ▶								
SURNAME ▶								
DATE ▶								

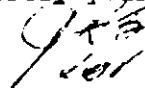
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If the conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,



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

Enclosure

DIS:RHLee:DCR-03138:WANG-3744C:jjk:Raven:479-2013:4/14/83