

THIS PRODUCT will control algae and bacterial slimes found in recirculating cooling tower waters, oil field water flood and crude oil pipelines and storage facilities.

THIS PRODUCT helps clean and loosen slime debris from cooling and flooding system surfaces. When used in slug doses, no other microbicide is required.

THIS PRODUCT 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 a NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

PHYSICAL HAZARDS

DO NOT USE, POUR, SPILL 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 RE-PROCESSED 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.

**DIRECTIONS FOR USE
GENERAL CLASSIFICATION:**

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

For controlling algae, fungi, and a broad spectrum of bacteria and bacterial slime forming organisms that cause inefficient operating of building and industrial recirculating cooling towers, oil field water flood and crude oil pipeline and storage facilities. For best results, slug feed. The frequency of addition of microbicide needed depends on many factors. To optimize use of THIS PRODUCT follow this procedure.

**BioGuard
IM-50**



Water Treatment Microbicide for the effective control of a broad spectrum of microorganisms in building and industrial recirculating cooling towers, oil field flood or salt water disposal systems and crude oil pipelines and storage facilities

Active Ingredient

1-Hydroxyethyl-1-benzyl-2-alkyl*	50%
Imidazolinium chloride	50%
Inert Ingredients	100%

*Alkyl as in fatty acids of coconut oil

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.

**SEE LEFT PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS**

EPA Registration No. 5185-341
EPA Establishment No. 5185-GA-1
Net Volume 55 gal.

ACCEPTED BIO-LAB, INC.
with COMMENTS
in EPA Letter Dated

OCT 15 1982

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the purpose
registered under EPA Reg. No.
5185-341

Recirculating Cooling Towers

1. Initially use 7 fluid ounces per 1000 gallons of water to be treated (25 ppm active quaternary).

Should the above dosage not give satisfactory results, use 13 fluid ounces per 1000 gallons of water.

Repeat the initial dose every seven days or increase the frequency if needed.

2. When the above treatment level is successful, use 3 to 4 fluid ounces per 1000 gallons of water to maximize efficiency.

Repeat weekly as needed.

Should slime develop again, go back to initial dosage.

Recirculating 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 feed every seven days.

Dilute the appropriate amount of THIS PRODUCT in 1 or 2 gallons of water, then add to the sump of the tower. Note this product weighs 7.76 lbs. per gallon (at 20°C).

Should tower be heavily fouled, a precleaning is required.

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

1. For the control of slime forming and sulfate reducing bacteria in oil field water flood or salt water disposal systems, add 35-50 ppm (active) THIS PRODUCT (9%-13 gallons per 3000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.

2. For intermittent use, dose at a rate of 35-70 ppm (active) THIS PRODUCT (9%-18 gallons per 3000 barrels of water) for 4-8 hours per day, one to four times a week as needed to maintain control.

Crude Oil Pipeline and Storage Facilities

1. For the control of sulfate reducing bacteria, heterotrophic bacteria and corrosion in crude oil pipelines, slug dose with 0.5-3 gallons of THIS PRODUCT per diameter inch per mile of pipeline. Apply the appropriate dosage in slug form in front of the pipeline plug as required by the system.

2. For continuous pipeline feed applications, add 9.3-13 gallons of THIS PRODUCT per 3000 barrels of crude oil. THIS PRODUCT is added to the pipeline directly behind the plug.

3. For the treatment of crude oil storage facilities, add THIS PRODUCT at the rate of 9.3-13 gallons per 3000 barrels of crude oil.

Add THIS PRODUCT directly from the drum with the proper type of metering equipment. This product weighs 7.76 lbs/gallon (at 20°C). Since crude oil pipeline and storage facilities differ in the material handled and operation, the recommended dosages may require adjustment based on practical experience.

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (RM-167) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 5185-341	DATE OF ISSUANCE
	TERM OF ISSUANCE 1992	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input checked="" type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	NAME OF PESTICIDE PRODUCT Bio-Guard IM-50	
	NAME AND ADDRESS OF REGISTRANT (Include ZIP code)	
Bio-Lab, Inc. P.O. Box 1489 Decatur, GA 30031		
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.		
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.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an endorsement 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.		
This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:		
1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.		
2. Make the labeling changes listed below before you release the product for shipment:		
a. Include the note to Physician to read:		
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.		
Refer to the previously submitted draft labels for guidance and proper placement.		
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.		
<input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE		Signature: <i>James H. ...</i> Title: <i>...</i>
SIGNATURE OF APPROVING OFFICIAL		DATE

BEST DOCUMENT AVAILABLE

5185-391

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

Enclosures

BEST DOCUMENT AVAILABLE