

# MICROBIOCIDES WTB-20

THIS PRODUCT is recommended to control the growth of green algae (Chlorella, Scenedesmus), blue-green algae (Phormidium, Anabaena), anaerobic sulfate-reducing bacteria (Desulfovibrio) and aerobic heterotrophic bacteria (Bacillus sp., Pseudomonas sp.) in recirculating water cooling systems, evaporative condensers and in subsurface injection systems, such as secondary and tertiary of recovery systems.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Remove and wash contaminated clothing before re-use.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES Permit. For guidance, contact the regional office of EPA.

### DIRECTIONS FOR USE GENERAL CLASSIFICATION

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

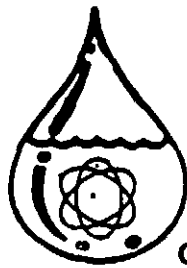
THIS PRODUCT may be metered, pumped, gravity fed or poured from a suitable container into the treatment system. Centrifugal, injection, piston or diaphragm pumps are satisfactory. Algicide feed pumps, meters and feed lines may be stainless steel, neoprene, glass, plastic or unpigmented fiberglass.

**RECIRCULATING WATER COOLING TOWERS:**  
**INITIAL TREATMENTS:** To a visually clean system or when algae or slime is first visible, to pump water near pump suction, add 25 to 50 ounces of THIS PRODUCT for each 1,000 gallons of water (185 to 390 ppm) in the system. Repeat initial dose at day intervals until algae and slime control is evident. Badly fouled systems should be cleaned before initial treatment.

**MAINTENANCE TREATMENTS:** The frequency at which additional dosages must be added to control slime and algal growth can only be determined by experience, since each system will vary in water composition and in amounts and types of microorganisms present.

A treatment of this algicide once or twice a month or when algae or slime first appears, is usually sufficient to control green algae in cooling towers. To control slime bacteria, a dose may be necessary once a week or every other two weeks. Use 18 to 36 oz. per 1,000 gallons of water (180 to 300 ppm) for subsequent dosages.

**FEEDING:** THIS PRODUCT may be fed directly from the drum or diluted with water and fed by any suitable feed system. Pour directly into the pump or any other convenient location providing good distribution of treatment.



## CHEM PRO MICROBIOCIDES WTB-20

Controls algae slime growth on recirculating water cooling towers and evaporative condensers.

Controls anaerobic sulfate-reducers and aerobic heterotrophic bacteria in oil field and petro-chemical water injection systems.

### ACTIVE INGREDIENTS:

Alkyl (C<sub>14</sub>, 58%; C<sub>10</sub>, 28%; C<sub>12</sub>, 14%)

dimethyl benzyl ammonium chloride . . . . . 20%

INERT INGREDIENTS: . . . . . 80%

TOTAL INGREDIENTS . . . . . 100%

## KEEP OUT OF REACH OF CHILDREN DANGER

**PRACTICAL TREATMENT (FIRST AID):** 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 physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by cautious intravenous injection of a short-acting barbiturate drug.

SEE ADDITIONAL PRECAUTIONS ON SIDE PANEL

NOT FOR USE OR STORAGE AROUND THE  
HOME ENVIRONMENT  
FOR COMMERCIAL AND INDUSTRIAL USE ONLY

EPA Reg. No. \_\_\_\_\_ EPA Est. No. 35571-35571-2

Manufactured by:  
**CHEM PRO LABORATORY, INC.**  
941 W. 190th STREET  
GARDENA, CA 90248  
532-8611

Net Contents:

BEST DOCUMENT AVAILABLE

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

AUG 29 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the  
pesticide registered under EPA Reg. No.

**OIL FIELD AND PETROCHEMICAL SUBSURFACE INJECTION 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 microbiocides 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.

**SLUG DOSES:** An effective treatment for aerobic heterotrophic bacteria is 100-400 ppm THIS PRODUCT (12 to 50 ounces per 1,000 gallons). A slug dose for anaerobic sulfate-reducers is 30-118 ppm of the Algicide (3.25 to 15 ounces per 1,000 gallons). The appropriate slug dose should be applied for three to eight hours daily until the desired level of control is achieved. To maintain the system in an acceptable manner, utilize a continuous treatment with the algicide or apply intermittent doses.

**INTERMITTENT DOSES:** To prevent a clean system from fouling, slug doses may be applied intermittently. The frequency of intermittent doses will vary with individual systems and can be established only through experience. Intermittent doses may be required 2 to 3 times a week in some systems. Other systems may require dosing once a week or once every two weeks. For heterotrophic bacteria, use 100-400 ppm THIS PRODUCT (12 to 50 ounces per 1,000 gallons). For anaerobic sulfate reducers use 30-118 ppm THIS PRODUCT (3.75 to 15 ounces per 1,000 gallons). Maintain these doses for two to eight hours, depending upon the requirements of your system.

**CONTINUOUS TREATMENT:** Fouled systems should be slug treated to get initial control, followed by continuous treatment to maintain control. Use 30 to 100 ppm THIS PRODUCT (3.75 to 12.5 ounces per 1,000 gallons). The lower dose concentration is usually satisfactory for Desulfovibrio. Higher doses may be needed for the aerobic 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 waste that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
- 3. CONTAINER DISPOSAL:** (A) Recycle 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.

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 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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit a copy of the label for registration/ reregistration of this product under FIFRA sec. 3(c)(7)(B) with the Agency within 90 days of registration of similar products to which it is similar.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 35571-20."
- b. Give your complete EPA Establishment No. on the label.
- c. Revise your disposal statement to read:

STORAGE AND DISPOSAL

Store only in tightly closed, original container in secure area - inaccessible to children. Do not contaminate water, food or feed by storage and disposal.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

*James H. Banks*  
*John H. Loe*

DATE

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.

Do not reuse empty container.

Triple rinse empty container with water. Return metal drums to reconditioner or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated or, if allowed by local authorities, by burning. If burned, stay out of smoke.

The heading "Storage and Disposal" must be of the same type size as the child hazard warning statement.

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(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

*James A. Lee*  
for

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

Enclosures

BEST DOCUMENT AVAILABLE

This PRODUCT is recommended to control the growth of green algae (Chlorella, Scenedesmus), blue-green algae (Phormidium, Anabaena), anaerobic sulfate-reducing bacteria (Desulfovibrio) and aerobic heterotrophic bacteria (Bacillus sp., Pseudomonas sp.) in recirculating water cooling systems, evaporative condensers and in subsurface injection systems, such as secondary and tertiary oil recovery systems.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### DANGER

Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES Permit. For guidance contact the regional office of EPA.

#### DIRECTIONS FOR USE GENERAL CLASSIFICATION

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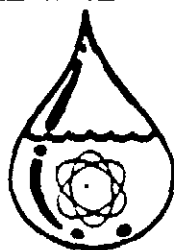
THIS PRODUCT may be metered, pumped, gravity fed or poured from a suitable container into the treatment system. Centrifugal injection, piston or diaphragm pumps are satisfactory. Algicide feed pumps, meters and feed lines may be stainless steel, neoprene, glass, plastic or unpigmented fiberglass.

**RECIRCULATING WATER COOLING TOWERS INITIAL TREATMENTS:** To a visually clean system or when algae or slime is first visible, to pump water near pump suction, add 50 to 100 ounces of THIS PRODUCT for each 1,000 gallons of water (390 to 780 ppm) in the system. Repeat initial dose at day intervals until algae and slime control is evident. Badly fouled systems should be cleaned before initiating treatment.

**MAINTENANCE TREATMENTS:** The frequency at which additional dosages must be added to control slime and algae growth can only be determined by experience, since each system will vary in water composition and in amounts and types of microorganisms present.

A treatment of this algicide once or twice a month or when algae or slime first appears is usually sufficient to control growth of green algae in cooling towers. To control slime bacteria, a dose may be necessary once a week or once every two weeks. Use 35 to 77 oz. per 1,000 gallons of water (300 to 600 ppm) for subsequent dosages.

**FEEDING:** THIS PRODUCT may be taken directly from the drum or diluted with water and fed by any suitable feed system. This includes gravity, pump, or any other convenient location providing good distribution of treatment.



## CHEM PRO MICROBIOCIDES WTB-10

Controls algae slime growth on recirculating water cooling towers and evaporative condensers.

Controls anaerobic sulfate-reducers and aerobic heterotrophic bacteria in oil field and petro-chemical water injection systems.

#### ACTIVE INGREDIENTS:

Alkyl (C <sub>14</sub> 58%; C <sub>16</sub> 28%; C <sub>12</sub> 14%)	
dimethyl benzyl ammonium chloride	10%
INERT INGREDIENTS	90%
TOTAL INGREDIENTS	100%

### KEEP OUT OF REACH OF CHILDREN DANGER

**PRACTICAL TREATMENT (FIRST AID):** 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 physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by cautious intravenous injection of a short-acting barbiturate drug.

SEE ADDITIONAL PRECAUTIONS ON SIDE PANEL

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**OIL FIELD AND PETROCHEMICAL SUBSURFACE INJECTION 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 microbicide 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.

**SLUG DOSES:** An effective treatment for aerobic heterotrophic bacteria is 200-800 ppm THIS PRODUCT (28 to 103 ounces per 1,000 gallons). A slug dose for anaerobic sulfate-reducers is 60-230 ppm of this Algicide (8 to 30 ounces per 1,000 gallons). The appropriate slug dose should be applied for three to eight hours daily until the desired level of control is achieved. To maintain the system in an acceptable manner, carry a continuous treatment with the algicide or apply a intermittent dose.

**INTERMITTENT DOSES:** To prevent a clean system from fouling, slug doses may be applied intermittently. The frequency of intermittent doses will vary with individual systems and can be established only through experience. Intermittent doses may be required 2 to 3 times a week in some systems. Other systems may require dosing once a week or once every two weeks. For heterotrophic bacteria, use 200-800 ppm THIS PRODUCT (28 to 103 ounces per 1,000 gallons). For anaerobic sulfate-reducers, use 60-230 ppm THIS PRODUCT (8 to 30 ounces per 1,000 gallons). Maintain these doses for two to eight hours, depending upon the requirements of your system.

**CONTINUOUS TREATMENT:** Fouled systems should be slug treated to get initial control, followed by continuous treatment to maintain control. Use 60 to 200 ppm THIS PRODUCT (8 to 28 ounces per 1,000 gallons). The lower dose concentration is usually satisfactory for Desulfovibrio. Higher doses may be needed for the aerobic 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 trash that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

3. **CONTAINER DISPOSAL:** (A) Reuse 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 methods.

<p align="center">U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (711-567) WASHINGTON, D.C. 20460</p> <p><b>NOTICE OF PESTICIDE:</b>    <input type="checkbox"/> REGISTRATION   <input checked="" type="checkbox"/> REREGISTRATION</p> <p><i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i></p>	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	24 AUG 1984
	NAME OF PESTICIDE PRODUCT	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p><b>BEST DOCUMENT AVAILABLE</b></p>		
<p><b>NOTE:</b> 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>		
<p><input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE</p>		
SIGNATURE OF APPROVING OFFICIAL		DATE

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.

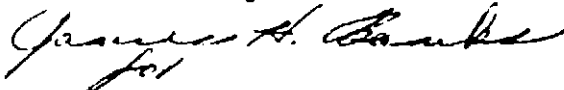
Do not reuse empty container.  
Triple rinse empty container with water. Return metal drums to reconditioner or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated or, if allowed by local authorities, by burning. If burned, stay out of smoke.

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