

T-5-8

NOT REVIEWED  
In accordance with FR Notice 82-2.  
Pesticide Labeling Act

### INDUSTRIAL MICROBICIDE

**ACTIVE INGREDIENT:**  
2-(Thiocyanomethylthio)benzothiazole ..... 5%  
**INERT INGREDIENTS (Contains Petroleum Distillates)** ..... 95%  
This product weighs 7.84 pounds per gallon.

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Causes irreversible eye damage. Causes skin damage. This product may cause allergic skin reactions. 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.  
**FIRST AID:** *If in eyes*, flush with plenty of water. Get medical attention. *If on skin*, wash with plenty of soap and water. Get medical attention. *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. Get medical attention.  
*Note to physician:* Probable mucosal damage may contraindicate gastric lavage.  
**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not use in offshore or estuarine drilling operations. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES Permit. For guidance, contact the regional office of the Environmental Protection Agency.  
**PHYSICAL AND CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

### STORAGE & DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.  
**STORAGE:** Do not expose to extreme temperatures. Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.  
**PESTICIDE 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 according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your EPA Regional Office for guidance.  
**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

### DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.** Technical assistance in applying T-5-8 for microorganism control as described in the following is available upon request when a description of the problem is provided.

**COOLING TOWERS:** T-5-8 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by spraying or painting a dispersion containing 3.0 to 4.2% T-5-8 in water onto the clean wood surfaces. The amount applied should provide 3.6 to 4.8 lb T-5-8 per 1000 ft<sup>2</sup> of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of T-5-8 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 7.5 lb of T-5-8 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after treatment. The shock treatment should be repeated every four months.

**COOLING WATER:** T-5-8 is used to control algae, bacteria, and fungi in industrial recirculating cooling water systems. Before treatment is begun, the system should be cleaned thoroughly to remove old algal growth, microbiological slimes, and other deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 3.6 to 22.2 fl oz T-5-8 per 1000 gal water in the system. Subsequent addition of 1.2 to 7.2 fl oz per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and severity of microbiological fouling.

**DRILLING FLUIDS:** To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, T-5-8 is incorporated in the drilling fluid at concentrations of 0.3 to 1.5% based on the total wet weight of the fluid.

**PETROLEUM SECONDARY RECOVERY:** T-5-8 is used to control sulfate-reducing bacteria, slime-forming bacteria and fungi in oil-field water, polymer, or micellar floods, water-disposal systems, and other oil-field water systems at dosage rates of 1.2 to 22.2 fl oz of T-5-8 per 1000 gal of water treated. Additions should be made continuously or intermittently by means of a metering pump at the free water knockouts, before or after injection pumps and injection well headers. Continuous Feed Method: When system is noticeably fouled, add 3.6 to 22.2 fl oz T-5-8 per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 1.2 to 7.2 fl oz T-5-8 per 1000 gal of water continuously, or as needed to maintain control. Intermittent or Slug Method: When system is noticeably fouled, or to maintain control, add 3.6 to 22.2 fl oz T-5-8 per 1000 gal of water for 4 to 8 hr per day and 1 to 4 times per week, or as needed to maintain control.

**CUTTING FLUIDS:** T-5-8 is used to inhibit bacterial and fungal degradation of water-based and water-soluble or emulsifiable cutting fluids and coolants used in metalworking operations. It should be added to the cutting fluid at a rate that will provide 600 to 1500 parts per million T-5-8 (weight/weight) after final dilution with water. T-5-8 can be added after dilution or to the concentrate before dilution. To prevent fungal growth on the inside walls of the diluted metalworking fluid storage tanks, higher concentrations of T-5-8 are needed. For this application, it is recommended that T-5-8 be added to the diluted fluid as it is prepared to provide a concentration of 3000 to 7500 parts per million.

Manufactured by:

**BUCKMAN LABORATORIES, INC.**  
1256 NORTH McLEAN BOULEVARD  
MEMPHIS, TN 38108

EPA REG. NO. 1448-159 EPA EST. NO. \_\_\_\_\_

NET CONTENTS \_\_\_\_\_

McKENNAN Laboratories, Inc.  
2150 North McLean Boulevard  
Memphis, TN 38102

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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 section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Add the phrase "EPA Registration No. 1448-159" to your label before you release the product for shipment.

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 section 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.



John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (19-767C)

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

2062

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

T-5-8

DEC 20 1988

**INDUSTRIAL MICROBICIDE**

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

1448-159

**ACTIVE INGREDIENT:**

2-(Thiocyanomethylthio)benzothiazole

**INERT INGREDIENTS (Contains Petroleum Distillates)**

This product weighs 7.84 pounds per gallon.

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

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

**DANGER:** Corrosive. Causes irreversible eye damage. Causes skin damage. This product may cause allergic skin reactions. 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.

**FIRST AID:** *If in eyes,* flush with plenty of water. Get medical attention. *If on skin,* wash with plenty of soap and water. Get medical attention. *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. Get medical attention.

*Note to physician:* Probable mucosal damage may contraindicate gastric lavage.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not use in offshore or estuarine drilling operations. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES Permit. For guidance, contact the regional office of the Environmental Protection Agency.

**PHYSICAL AND CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**STORAGE & DISPOSAL**

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

**STORAGE:** Do not expose to extreme temperatures. Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or sludge is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**DIRECTIONS FOR USE**

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT WITHOUT ITS LABELING. Technical assistance in applying T-5-8 for microorganism control as described in the following is available. Problem is provided.

**COOLING TOWERS:** T-5-8

wood against soft or surface rot and internal or dry rot. It is applied to surfaces containing 3.0 to 4.2% T-5-8

surfaces. The amount applied should provide 3.8 to 4.8 lb of T-5-8 per 1000 ft<sup>2</sup> of wood surface. Soft or surface rot can be controlled by T-5-8 to the recirculating

well. The dosage should provide 7.5 lb of T-5-8 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after repeated every four months.

**COOLING WATER:** T-5-8

and fungi in industrial recirculating cooling water systems should be cleaned thoroughly to remove old algal growth, microorganisms. The system should then be drained, flushed, refilled with water, and treated with T-5-8 per 1000 gal of 1.2 to 7.2 fl oz per 1000 gal should be made every 1 to 5 days to prevent microbiological fouling.

**DRILLING FLUIDS:** To inhibit bacterial and fungal degradation of wells, T-5-8 is incorporated into the fluid at concentrations of 0.3 to 1.5% based on the total wet weight of the fluid.

**PETROLEUM SECONDARY RECOVERY:** T-5-8

control sulfate-reducing bacteria, slime-forming bacteria, and emulsifier micellar floods, water-disposal systems, and other oil-field water treatment systems. T-5-8 per 1000 gal

made continuously or intermittently by means of a metering pump after injection pumps and injection well headers. Continuous treatment of fouled, add 3.8 to 22.2 fl oz T-5-8

continuously until desired degree of control is achieved. T-5-8 per 1000 gal of water

control. Intermittent or Slug Method: When system is not fouled, add 3.8 to 22.2 fl oz T-5-8 per 1000 gal of water 4 times per week, or as needed to maintain control.

**CUTTING FLUIDS:** T-5-8

degradation of water-based and water-soluble or emulsifiable metalworking operations. It should be added to the cutting fluid at a concentration of T-5-8 (weight)

T-5-8 can be added after the cutting fluid is in use. To prevent fungal growth on the inside walls of the dialysis chamber, concentrations of T-5-8

recommended that T-5-8 be prepared to provide a concentration of 3000 to 7500 parts per million.

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**BUCKMAN LABORATORIES**  
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