

WESTERN CHEMICAL COMPANY

# MICROBICIDE M

**ACTIVE INGREDIENT:**

2-(Thiocyanomethylthio)benzothiazole 30.0%

**INERT INGREDIENTS** 70.0%

ACCEPTED  
SEP 22 1982  
EPA Reg. No. 7547-29

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

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

**DANGER:** Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**STATEMENT OF PRACTICAL TREATMENT:** *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 flames.

Manufactured by:  
Western Chemical Company  
P.O. Box 7469  
North Kansas City, MO 64116  
EPA REG. NO. 7547-29      EPA Est. No. 7547-MO-1

NET CONTENTS: \_\_\_\_\_ POUNDS

## 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 Microbicide M for microorganism control as described in the following is available upon request when a description of the problem is provided.

**PULP MILLS:** To protect wood chips from fungal degradation during storage, Microbicide M is used at 0.5 to 2 lb/ton of oven dry wood. It can be applied through a water shower or spray located in the pneumatic conveyor carrying chips from the chipper to the storage pile. For preservation of wet lap or sheet pulp, Microbicide M is used at 0.5 to 4 lb/ton of oven-dry fiber. It is applied to the surfaces of the dewatered pulp by means of sprays or applicator rolls.

**PAPER MILLS:** To control bacterial and fungal growth on paper and paperboard machines, Microbicide M is added to the white water or stock at 0.1 to 0.5 lb/ton of dry paper or paperboard produced. To make mold resistant paper or paperboard, Microbicide M is used at 0.05 to 0.1 lb/1000 ft<sup>2</sup> of surface. For coated paper or board, Microbicide M is incorporated in the coating mix prior to application of the coating. For uncoated paper or board, Microbicide M is dispersed in water, surface-sizing solution, or other solvent and applied to the surface to be protected by means of an applicator roll. For the preservation of agricultural mulch paper, Microbicide M is used at 1.5 to 5 lb/ton air-dry paper. It is applied to the surfaces of the mulch paper by tub-sizing methods or by means of sprays or applicator rolls before the paper is coated.

**PARTICLE BOARD:** Microbicide M is employed as a preservative for particle board, insulation board, and other wood-base fiber and particle panel materials. In this use, Microbicide M is mixed with the resin or binding agent at 0.1 to 1% based on the dry weight of the wood.

**COOLING TOWERS:** Microbicide M 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 0.5 to 0.7% Microbicide M in water onto the clean wood surfaces. The amount applied should provide 0.6 to 0.8 lb Microbicide M per 1000 ft<sup>2</sup> of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of Microbicide M to the recirculating cooling water at the tower basin or cold well. The dosage should provide 1.25 lb of Microbicide M 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:** Microbicide M 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 slime and other deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 0.6 to 3.7 fl oz Microbicide M per 1000 gal water in the system. Subsequent additions of 0.2 to 1.2 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, Microbicide M is incorporated in the drilling fluid at concentrations of 0.05 to 0.25% based on the total wet weight of the fluid.

**PETROLEUM SECONDARY RECOVERY:** Microbicide M 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 0.2 to 3.7 fl oz of Microbicide M 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 0.6 to 3.7 fl oz Microbicide M per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 0.2 to 1.2 fl oz Microbicide M 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 0.6 to 3.7 fl oz Microbicide M 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.

**CRUDE AND REFINED OILS:** MICROBICIDE M is an oil-soluble preservative for the control of bacteria and fungi that cause the degradation of crude oil and diesel and distillate heating oils during storage. It is not approved for aviation fuels. It should be added to the oil as it is being transferred from the shipping container to the storage tank at the rate of 0.6 to 6.0 fl oz Microbicide M per 1000 gal of oil. Addition should be made batchwise where mixing occurs or continuously to the suction side of the transfer pump.

**CUTTING FLUIDS:** Microbicide M 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 2.5 to 250 parts per million Microbicide M (weight/weight) after final dilution with water. Microbicide M can be added after the dilution or can be added to the concentrate before dilution at a rate of 125 to 1250 parts per million in order to provide the required concentration in the diluted fluid.

## STORAGE and DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture, 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.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

**GENERAL:** Consult Federal, state, or local disposal authorities for approved alternative procedures such as limited open burning.