

# M-20-2

**ACCEPTED**  
DEC 17 1997  
Under the Toxic Substances, Fungicide and Herbicide Act, this product, for the pesticide registered under EPA Reg. No. 1448-148

**ACTIVE INGREDIENTS:**  
Methylene bis(thiocyanate) ..... 10.0 %  
2-(Thiocyanomethylthio)benzothiazole ..... 10.0 %  
**INERT INGREDIENTS:** ..... 80.0 %

PM 93

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive, causes irreversible eye damage and causes skin damage. Harmful or fatal if swallowed or absorbed through the skin. This product is a potential skin sensitizer. Workmen handling this product or treated material should wear impervious gloves, goggles or face shield, and protective clothing. All protective clothing, work shoes or boots, and equipment must be left at the work site at the end of the day. Eating, drinking, or smoking during use of this product is prohibited.

**STATEMENT OF PRACTICAL TREATMENT:** In case of skin contact, wash promptly and thoroughly with soap and water and finally with glycerin. If product gets in the eyes, flush immediately with copious amounts of clean, cool water for 15 to 30 minutes. Get medical attention immediately. If product is swallowed, call a physician or Poison Control Center. Drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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

## STORAGE AND 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 containers 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, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
**COOLING TOWERS:** M-20-2 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by painting a dispersion containing 0.5% to 0.7% M-20-2 in water onto the clean wood surfaces. The amount applied

should provide 0.6 to 0.8 lb. M-20-2 per 1000 sq. ft. of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of M-20-2 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 1.25 lb. of M-20-2 per 1000 gal. of water and the bleedoff should be stopped for 4 to 6 hours after treatment. The shock treatment should be repeated every four months.  
**COOLING WATER:** M-20-2 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 fluid oz. M-20-2 per 1000 gal. water in the system. Subsequent additions of 0.2 to 1.2 fluid 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, M-20-2 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:** M-20-2 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 3.9 to 13.0 fluid oz. M-20-2 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 3.9 to 13.0 fluid oz. M-20-2 per 1000 gal. of water continuously until desired degree of control is achieved. Then treat with 3.9 to 13.0 fluid oz. M-20-2 per 1000 gal. of water continuously, or as needed to maintain control.  
**Intermittent or Skid Method:** When system is noticeably fouled, or to maintain control, add 3.9 to 13.0 fluid oz. M-20-2 per 1000 gal. of water for 4 to 8 hours per day and 1 to 4 times per week, or as needed to maintain control.  
**CRUDE AND REFINED OILS:** M-20-2 is an oil-soluble preservative for the control of bacteria and fungi that cause the degradation of crude oil and refined oils during storage. 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 fluid oz. M-20-2 per 1000 gal. of oil. Addition should be made batchwise where mixing occurs or continuously to the suction side of the transfer pump.  
**Fuel:** M-20-2 can be used to eliminate and/or prevent the growth of bacteria and fungi in distillate and residual fuels including Diesel #1, Diesel #2, and Bunker C. M-20-2 is intended for use in applications where residual and distillate fuels are used such as: bulk storage tanks, locomotive fuel tanks, diesel trucks, diesel boats and ships, farm equipment, construction equipment, and diesel generators. M-20-2 should be added to the fuel at a rate of 3.0 to 6.0 fluid ounces per 1,000 gallons. M-20-2 should be fed by injecting the product into the fill line as the fuel is being added or added batchwise while the fuel is being added to ensure adequate mixing. For contaminated systems M-20-2 should be added at a shock dose of 6.0 ounces per 1,000 gallons. (see table below) For clean systems the maintenance dose is 3.0 to 6.0 fluid ounces per 1,000 gallons. (see table)

Gallons of fuel	Shock treatment	Maintenance treatment
100	0.6 fluid ounces	0.3 fluid ounces
250	1.5 fluid ounces	0.75 fluid ounces
500	3.0 fluid ounces	1.5 fluid ounces
1,000	6.0 fluid ounces	3.0 fluid ounces
5,000	30.0 fluid ounces	15.0 fluid ounces
10,000	60.0 fluid ounces	30.0 fluid ounces

M-20-2 is NOT for use in Aviation Fuels.

**REVERSE OSMOSIS SYSTEMS:** M-20-2 may be used to control microbiological fouling in reverse osmosis systems used for process, wastewater, and other non-potable applications. M-20-2 should be fed to the membrane feedwater at a rate of 0.25-5 ppm (0.03-0.6 fl oz/1000 gal). The product should be added continuously for a time period of 1-3 hours, 3-7 days each week depending on the severity of the problem. For off line cleaning, M-20-2 should be added to provide a level of 5-50 ppm (0.6-6 fl oz/1000 gal) in the soak solution.

**HMIS/NPCA RATING**  
Health 3 Flammability 2 Reactivity 1

Product Weight: 9.0 lbs./gal. 1.08 kg/  
NET CONTENTS MARKED ON CONTAINER  
EPA Reg. No. 1448-148

Manufactured By EPA Est. No. 1448-TN-1  
**BUCKMAN LABORATORIES, INC.**  
1256 N. McLEAN BLVD., MEMPHIS, TN 38108 USA  
(901) 278-0330 or 1-800-BUCKMAN

1448-148

12/17/97

1071

# M-20-2

**ACCEPTED**  
DEC 17 1997  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 1448-148

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2-(Thiocyanomethylthio)benzothiazole ..... 10.0 %  
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EPA Reg. No. 1448-148

Manufactured By EPA Est. No. 1448-TN-1  
**BUCKMAN LABORATORIES, INC.**  
1256 N. McLEAN BLVD., MEMPHIS, TN 38108 USA  
(901) 278-0330 or 1-800-BUCKMAN

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