DIRECTIONS FOR USE

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

NOTE TO USERS: Do not apply this product in a way that will contact workers or other persons.

COOLING TOWERS: M-5-1 is used to protect cooling tower water against soft or sour noise or internal or dry dirt. It is applied by painting a dispersion containing 2.0 to 2.5% M-5-1 in water onto the clean wood surfaces. The amount of material applied must provide 2.4 to 3.2 lb. M-5-1 per 1000 gal. of water. Soft or sour noise can also be inhibited by periodic shock doses of M-5-1 to the recirculating cooling water at the tower basin or cold tower. The dose should provide 0.5 to 1.25 lb. M-5-1 per 1000 gal. of water and the biofilm should be stopped for 4 to 6 hours after treatment. The shock treatment should be repeated every four months.

For treatment of cooling tower systems greater than or equal to 4000 gal.: Do not apply by open pouing of M-5-1 to cooling tower systems. A metering pump delivery system is required for this use and application method.

FLOWING WATER SYSTEMS: M-5-1 is used to control algae, bacteria, and fungi in industrial recirculating cooling water systems. Before treatment, the system should be cleaned thoroughly to remove old algal growth, microbiological slime, and other deposits. The system must then be drained, flushed, refilled with water, and treated with an initial dose of 2.4 to 14.8 fl oz. M-5-1 per 1000 gal. in the water. Make subsequent additions of 0.8 to 4.8 fl oz. per 1000 gal. every 1 to 2 days, depending on amount of biofilm and severity of microbiological fouling.

For treatment of cooling water systems greater than or equal to 4000 gal.: Do not apply by open pouing of M-5-1 to cooling tower systems. A metering pump delivery system is required for this use and application method.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluids or mud used in the drilling of wells, M-5-1 is used at the rate of 1.25 to 2.5 fl oz. per 1000 gal. based on the volume of the fluid.

PETROLEUM SECONDARY RECOVERY: M-5-1 is used to control sulfure-abating bacteria, slime-forming bacteria and fungi in oil-field water, polymer, or miscible fluids, water-disposal systems, and other oil-field water-streaming systems. M-5-1 can be used as a control agent or as a treatment to prevent the fouling of water injection wells, when added to the water injection. This product can also be used as a process control agent or as a treatment to prevent the fouling of water injection wells or as a preventive measure to maintain acceptable water injection.

Continuous Feed Method: When system is noticeably fouled, add 15.6 to 52.0 fl oz. M-5-1 per 1000 gal. of water continuously, or as needed to maintain control.

Intermittent or Slug Method: When system is noticeably fouled, add 15.6 to 25.0 fl oz. M-5-1 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-5-1 is an effective preventative for the control of bacteria and fungi that cause the degradation of crude and refined fuel oils during storage or transport (e.g., via truck, rail, ship, or pipeline). Crude and refined oils include, without limitation, crude oils, refined products, and napthenic oils. It should be added to the oil as it is being transferred from the shipping container to the storage tank or directly to the transport conduit/container at the rate of 2.4 to 24.0 fl oz. of M-5-1 per 1000 gal. of oil. Addition should be made batchwise, where mixing occurs or continuously to the suction side of the transfer pump.

FUELS: M-5-1 should be used in reservoirs to prevent the formation of inorganic and fungal in sludge and residual fuels including Gasoline, Diesel #1, #2, and Bunker C. M-5-1 is intended for use in applications where residuum and distillate fuels are used as: bulk storage tanks, larineum fuel, diesel fuel, diesel boats and ships, farm equipment, construction equipment, and diesel generators. M-5-1 should be added to the fuel at a rate of 1.25 to 2.5 fl oz. per 1000 gal. of water. Do not add the product into the fuel line as the fuel is being added or added batchwise while the fuel is being added or else adequate mixing.

For contaminated systems M-5-1 should be added at a shock dose of 2.5 fluid ounces per 100 gallons (see table below).

<table>
<thead>
<tr>
<th>Gallons of Fuel</th>
<th>0.0</th>
<th>0.25</th>
<th>0.50</th>
<th>0.75</th>
<th>1.0</th>
<th>2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment dose</td>
<td>0.0</td>
<td>0.25</td>
<td>0.50</td>
<td>0.75</td>
<td>1.0</td>
<td>2.5</td>
</tr>
</tbody>
</table>

M-5-1 is NOT for use in Aviation Fuels.

This diesel fuel additive does not comply with federal ultra-low sulfur content requirements for use in model year 2007 and newer diesel motor vehicles or model year 2011 and newer diesel nonroad engines.

STORAGE AND DISPOSAL

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

Do not expose to extreme temperatures. Do not store 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 sand, sawdust, or dry sand and disposed of at a sanitary landfill. Keep container closed when not in use.

PESTICIDE DISPOSAL: Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal Law. Pesticide wastes are acutely Hazardous. Wash hands resulting from the use of the product, Bocaove, pesticide, petroleum, fuel, or other solvent or chemical, as well as any rinse water, must be collected and disposed of at an approved disposal facility. If these wastes cannot be disposed of by use according to the label nor can be disposed of by use according to the label of the pesticide registration holder, they must be turned over to the State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your EPA Regional Office for disposal.

CONTAINER HANDLING:

For all nonrefillable containers: Non-toxic waste. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.

(Liquid residue removal statement for nonrefillable containers with capacity of 5 gal or less)

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the fire begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinse into application equipment or a mix tank or store rinse for the later use or disposal. Drain for 10 seconds after the fire begins to drip. Repeat this procedure until the container is empty.

(Liquid residue removal statement for nonrefillable containers with capacity of >5 gal) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring that all one complete revolution, for 30 seconds. Shake vigorously for 10 seconds on its side, (tip it back and forth) several times. Empty the rinsate into application equipment or a mix tank or store rinse for later use or disposal. Repeat this procedure two more times and drain.

(Test for all nonrefillable containers)

Then offer for recycling if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, if allowed by state and local authorities. Burn if empty. Store, stay out of smoke.

(Refrigerant for refillable container)

Refillable container: Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before re-filling is the responsibility of the re-filler.

(For containers larger than 55 gallons) To ensure that the container or application equipment is clean, use a pressure wash as follows: Empty the remaining contents into application equipment or a mix tank. Use a pressure wash system that rinses all interior sides with water and then flushes with 100% Petroresiduals with a length of time feels 100% on the interior sides of the container. The volume of water used is 25% of the container volume of water. During the pressure wash, ensure that the container valve is left open for continuous drainage. Collect the rinsate and empty into application equipment or a mix tank or store rinse for later use or disposal. Allow container to drain for 10 minutes after pressure wash is completed.

(For containers 55 gallons and smaller)

To clean the container prior to re-filling or disposal, use a triple rinse wash as follows: Empty the remaining contents from this container or application equipment or a mix tank. Fill the container about 10 percent full with water. Add Petroresiduals 100% and agitate. Pour or pump rinsate from container into equipment or a mix tank or store rinse for later use or disposal. Repeat this rinsing procedure two more times.

Do not discharge rinse contain-out product unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority. Do not discharge rinse contain-out product to sewer systems without appropriate pollution control equipment. Do not discharge rinse contain-out product to sewer systems without appropriate pollution control equipment. Do not discharge rinse contain-out product to sewer systems without appropriate pollution control equipment.

Produced by: Buckman Laboratories, Inc. 1256 N. McLean Blvd., Memphis, Tennessee 38108, U.S.A. (901) 278-0030 or 1-800-282-5626 EPA Est. No. 1448-TN-1 EPA Reg. No. 1448-171 Product Weight 8.6 lb/gal 1.03 kg/l Product Net contents are marked on the container. HIMIS / NPCA Ratings Health 3 Flamability 2 Reactivity 1

Revised: 02/17/16