

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other

OPP Identifier Number 226622

Application for Pesticide - Section I

1. Company/Product Number 1448 - 172
2. EPA Product Manager Marion Johnson
3. Proposed Classification None Restricted
4. Company/Product (Name) Buckman Laboratories, Inc. / M-5-2
5. Name and Address of Applicant Buckman Laboratories, Inc. 1256 North McLean Blvd. Memphis, TN 38108
6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.) After a review of our files, we could not be sure that revisions per PR Notice 93-3 had been submitted via Notification. This Notification is to ensure that EPA records reflect PR 93-3 compliance.

NOTIFICATION 901 3 1996

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container, 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name: Marty Martin, Title: Asst. Regulatory Affairs Spec., Telephone No.: 901-272-8539. Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 2. Signature: Marty Martin, 3. Title: Asst. Regulatory Affairs Specialist, 4. Typed Name: Marty Martin, 5. Date: 23 September 1996, 6. Date Application Received (Stamped)

M-5-2

**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 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 or 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. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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 expose to extreme temperatures.

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 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, 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-5-2 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 2.0 to 2.8% M-5-2 in water onto the clean wood surfaces. The amount applied should provide 2.4 to 3.2 lb. M-5-2 per 1000 sq. ft. of wood surface. Soft or surface rot can also be inhibited by periodic shock

ACTIVE INGREDIENTS:

Methylene bis(thiocyanate) 2.8 %
2-(Thiocyanomethylthio)benzothiazole 2.3 %

INERT INGREDIENTS: 95.0 %

doses of M-5-2 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 5.0 lb. of M-5-2 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-5-2 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 slimes, and other deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 2.4 to 14.8 fluid oz. M-5-2 per 1000 gal. water in the system. Subsequent additions of 0.8 to 4.8 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-5-2 is incorporated in the drilling fluid at concentrations of 0.2 to 1.0% based on the total wet weight of the fluid.

PETROLEUM SECONDARY RECOVERY: M-5-2 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 15.6 to 52.0 fluid oz. M-5-2 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 15.6 to 52.0 fluid oz. M-5-2 per 1000 gal. of water continuously until desired degree of control is achieved. Then treat with 15.6 to 52.0 fluid oz. M-5-2 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 15.6 to 52.0 fluid oz. M-5-2 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-5-2 is an oil-soluble preservative for the control of bacteria and fungi that cause the degradation of crude oil and refined fuel oils during storage. Crude and refined oils include, but are not limited to, olefinic, aromatic, paraffinic, and naphthenic oils. It should be added to the oil as it is being transferred from the shipping container to the storage tank at the rate of 2.4 to 24.0 fluid oz. M-5-2 per 1000 gal. of oil. Addition should be made batchwise where mixing occurs or continuously to the suction side of the transfer pump.

REVERSE OSMOSIS SYSTEMS: M-5-2 may be used to control microbiological fouling in reverse osmosis membranes used for process water, wastewater, and other non-potable applications. M-5-2 should be fed to the membrane feedwater at a rate of 1 - 20ppm (0.12 - 2.4 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-5-2 should be added to provide a level of 20 - 200ppm (2.4 - 24 fl. oz./1000 gal.) in the soak solution.

HMS/NPCA RATING
Health 3 Flammability 2 Reactivity 1

Product Weight: 8.6 lbs./gal. 1.03 kg/l
NET CONTENTS MARKED ON CONTAINER

EPA Reg. No. 1448-172

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

Rev. 9/23/96

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