


67869-44

12-14-2006

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 <b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> Office of Pesticide Programs Antimicrobials Division (7510C) 1200 Pennsylvania Avenue NW Washington, D.C. 20460  <b>NOTICE OF PESTICIDE:</b> <u>  x  </u> Registration <u>     </u> Reregistration  (under FIFRA, as amended)	EPA Reg. Number:  67869-44	Date of Issuance:  DEC 14 2006
	Term of Issuance:  <b>Conditional</b>	
	Name of Pesticide Product:  MR 5005	

Name and Address of Registrant (include ZIP Code):  Verichem, Inc. 3499 Grand Avenue Pittsburgh, PA 15225  DEC 26 2006	
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Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 sec 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Revise the "EPA Registration Number to read, "EPA Reg. No. 67869-44"

Signature of Approving Official:  Marshall Swindell Product Manager Team-33 Regulatory Management Branch I Antimicrobials Division (7510P)	Date:  DEC 14 2006
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b. Please note that the signal word is DANGER.

c. The precautionary statements must read, "DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, chemical-resistant gloves, goggles, face shield, or shielded safety glasses, and a respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approved number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOAH approved number prefix TC-14G), or a NIOAH approved respirator with an organic vapor (OV) cartridge or a canister with any N, R, P, or HE prefilter." May be fatal if inhaled.. Harmful if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Remove and wash contaminated clothing before reuse.

d. The first aid statements must read:

**IF SWALLOWED**

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**IF ON SKIN**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**IF INHALED**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

**IF IN EYES**

- Hold eye open and rinse gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

3. Base on the irritation studies, this product meets the qualifications for Restricted-Use Pesticide as stated on 40 CFR 152.170. This product also meet the qualifications for Child-Resistant Packaging as stated in 40 CFR 157.22

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4. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely,

A handwritten signature in cursive script, appearing to read "M. Swindell".

Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

Enclosure

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#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses), clothing and chemical resistant gloves. May be fatal if inhaled. Do not breathe vapor or spray mist. Wear a mask or pesticide respirator joint approved by the Mine Safety and Health Administration and the National Institute of Occupational Safety and Health. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

##### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**HOT LINE NUMBER:** Have the product container or label with you when calling a Poison Control Center or doctor before going for treatment. You may also contact 412-331-7299 for emergency medical treatment information. For transportation emergencies call Chemtrec at 1-800-424-9300.

##### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

##### STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Do not use or store near heat or open flame.

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

##### CONTAINER DISPOSAL:

**PLASTIC CONTAINERS:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# MR-5005

FOR THE CONTROL OF ALGAE,  
BACTERIA, FUNGI, AND MOLLUSKS  
IN A WIDE RANGE OF COMMERCIAL  
AND INDUSTRIAL PROCESSES AND  
MATERIAL PRESERVATIONS.

#### Active Ingredients:

Dodecylguanidine hydrochloride.....	30.0%
Ortho Phenyl Phenol.....	10.0%
Inert Ingredients: .....	60.0%
<b>TOTAL.....</b>	<b>100.0%</b>

## DANGER

KEEP OUT OF REACH OF CHILDREN

SEE SIDE PANEL FOR  
PRECAUTIONARY STATEMENTS

EPA Reg. No. 67869-

EPA Est. No. 67869-PA-001

LOT NO. \_\_\_\_\_

\_\_\_\_\_ LB. NET WT. \_\_\_\_\_ kg

SOLD BY:



# VERICHEM

VERICHEM INC.

3499 Grand Avenue  
Pittsburgh, PA 15225  
412-331-7299

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

DEC 14 2006

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
amended for the pesticide  
registered under EPA Reg. No.

67869-44

## DIRECTIONS FOR USE

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

MR-5005 is approved by the FDA (21 CFR 178.170 and 178.300) for use in the manufacture of paper and paperboard that contacts food and for silicidases. Other than the two uses for pulp and paper mill systems, and food packaging, do not use for any material preservation applications involving direct or indirect food or drinking water contact.

## INDUSTRIAL PROCESSES AND WATER SYSTEMS

### AIR WASHING SYSTEMS

For use only in Industrial Air Washer Systems that maintain effective mist eliminating components. Badly fouled systems must be cleaned before treatment is begun.

### SLUG OR INTERMITTENT METHOD

Initial dose: When system is noticeably fouled apply 6.6 to 13.2 oz./1000 gal (50 to 100 ppm). Repeat until control is achieved. Subsequent dose: When control is evident, apply 3.3 to 6.6 oz./1000 gal. (25-50 ppm) every three days or as needed.

### CONTINUOUS METHOD

Initial dose: When system is noticeably fouled, apply 6.6 oz./1000 gal (25-50 ppm) per day. Subsequent dose: Maintain initial rate by continuously feeding 3.3 to 6.6 oz./1000 gal. (25-50 ppm) per day.

### INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

For use only in Auxiliary and Standby Commercial and Industrial Systems that maintain effective mist eliminating components, Brewery Pasteurizer Water and Industrial Recirculating Water Cooling Towers. Badly fouled systems must be cleaned before treatment is begun.

### SLUG OR INTERMITTENT METHOD

Initial dose: When system is noticeably fouled apply 6.6 to 13.2 oz./1000 gal (50 to 100 ppm). Repeat until control is achieved. Subsequent dose: When control is evident, apply 3.3 to 6.6 oz./1000 gal. (25-50 ppm) every three days or as needed.

### CONTINUOUS METHOD

Initial dose: When system is noticeably fouled, apply 6.6 oz./1000 gal (25-50 ppm) per day. Subsequent dose: Maintain initial rate by continuously feeding 3.3 to 6.6 oz./1000 gal. (25-50 ppm) per day.

### OIL FIELD WATER SYSTEMS

Badly fouled systems must be cleaned before treatment is begun. Addition may be made at the free water knockouts before or after the injection pumps and injection well headers.

### SLUG OR INTERMITTENT METHOD

Initial dose: When system is noticeably fouled apply 6.6 to 13.2 oz./1000 gal (50 to 100 ppm). Repeat until control is achieved. Subsequent dose: When control is evident, apply 3.3 to 6.6 oz./1000 gal. (25-50 ppm) every three days or as needed.

### CONTINUOUS METHOD

Initial dose: When system is noticeably fouled, apply 6.6 oz./1000 gal (25-50 ppm) per day. Subsequent dose: Maintain initial rate by continuously feeding 3.3 to 6.6 oz./1000 gal. (25-50 ppm) per day.

### OIL AND GAS FLUIDS

For use in both terrestrial and offshore drilling muds and packer fluids, for the control of contamination and degradation of a wide range of gels and fluids including fracturing, enhanced oil recovery, injection, well cementing, drilling, workover and completion fluids. Add MR-5005 at 500 to 1000 ppm (4 to 8 pt./1000 gallons or 0.18 to 0.36 pt per barrel). For well squeezed fluids add MR-5005 at 250 to 2000 ppm (2 to 16 pt / 1000 gallons).

### OIL PROCESS WATERS

For use in oil and gas well injection and formation waters. MR-5005 should be injected as a slug dose at any convenient point at 250 to 1000 ppm (2 pt to 8 pt /1000 gallons). A slug dose should be applied from once per week to once per month depending on the severity of contamination.

### SEWAGE DISPOSAL LAGOONS

This product reduces the growth of algae on the surface of sewage disposal lagoons, which, if unchecked, can cause the lagoon to become totally anaerobic and emit odors. Dilute MR-5005 with water to accommodate the delivery characteristics of the pump and spray rig, and apply evenly to the surface of the lagoon. Dosage should be 1.0 to 1.5 ounces (by weight) of MR-5005 per 100 square feet of surface, depending on the population density of the algal blooms. The interval between treatments will be determined by the reappearance of floating algal blooms and subsequent treatment should be made as spot treatments at the same dosage as the initial treatment. A small outboard motorboat equipped with a tank-pump-spray boom assembly can be used to traverse the lagoon between flagrant on opposite shores in order to lay down an even spray.

### MATERIAL PRESERVATION

Other than food packaging, do not use for any material preservation applications involving direct or indirect food or drinking water contact.

## ADHESIVE SYSTEMS (NON-PAPER)

MR-5005 is used in the preservation of non-food contact paper related aqueous systems. The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight.

Dosage Rate Per 10,000 Pounds of Material to be Preserved:

Automobile adhesives tapes: .....	2.50 - 10.0 lbs (250-1000 ppm)
Glues: .....	2.50 - 10.0 lbs (250-1000 ppm)
Nonfood packaging adhesives: .....	2.50 - 10.0 lbs (250-1000 ppm)
Wallpaper: .....	2.50 - 10.0 lbs (250-1000 ppm)
Wood Glue: .....	2.50 - 10.0 lbs (250-1000 ppm)

### LEATHER

MR-5005 may be added directly to the pickle solutions. In the case of chrome leather, an effective protection against mold attack may be obtained without additional labor by stirring MR-5005 directly to the basifying solution, since MR-5005 dissolves freely in the alkaline solution. Finished vegetable-tanned leathers and chrome leathers may also be protected against mold attack by a treatment on both sides of the material with a 0.35 - 0.66% solution of MR-5005.

Dose Ranges:

Chrome leather (calculated on pelt weight) .....	0.90 - 2.20%
Leather pasting adhesives .....	0.40 - 0.90%
Leather pigment finishes .....	1.70 - 3.50%
Pickle solutions and pickled hides .....	1.30 - 2.20%

### PASTES

MR-5005 is used in the preservation of non-food contact paper related aqueous systems. Laboratory testing shows MR-5005 to be effective in the range of 2.50 - 10.0 lbs (250 to 1000 ppm). The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight.

Dosage Rate Per 10,000 Pounds of Material to be Preserved:

Wallpaper: .....	2.50 - 10.0 lbs (250-1000 ppm)
Wood glue: .....	2.50 - 10.0 lbs (250-1000 ppm)
Nonfood packaging adhesives: .....	2.50 - 10.0 lbs (250-1000 ppm)

### PAINTS, COATINGS, AND STAINS

MR-5005 is used in the preservation of non-food contact paper related aqueous systems. Laboratory testing shows MR-5005 to be effective in the range of 2.50 - 10.0 lbs (250 to 1000 ppm). The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight.

Dosage Rate Per 10,000 Pounds of Material to be Preserved:

Paints and coatings: (between manufacture and formation): .....	2.50 - 10.0 lbs (250-1000 ppm)
Coatings systems: (paints and coatings as finished products): .....	2.50 - 10.0 lbs (250-1000 ppm)
Titanium dioxide and calcium carbonates: (precursors to paint and coating products): .....	2.50 - 10.0 lbs (250-1000 ppm)

### PIGMENTS, DYES, AND FILER SUSPENSION

MR-5005 is used in the preservation of non-food contact paper related aqueous systems. Laboratory testing shows MR-5005 to be effective in the range of 2.50 - 10.0 lbs (250 to 1000 ppm). The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight.

Dosage Rate Per 10,000 Pounds of Material to be Preserved:

Pigments slurries: (paint dyes for non-clothing such as industrial fibers): .....	2.50 - 10.0 lbs (250-1000 ppm)
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### POLYMER DISPERSION AND EMULSIONS

MR-5005 is used in the preservation of non-food contact paper related aqueous systems. Laboratory testing shows MR-5005 to be effective in the range of 2.50 - 10.0 lbs (250 to 1000 ppm). The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight.

Dosage Rate Per 10,000 Pounds of Material to be Preserved:

Contact polymer systems: .....	2.50 - 10.0 lbs (250-1000 ppm)
Latex emulsions systems: .....	2.50 - 10.0 lbs (250-1000 ppm)

### PULP AND PAPER MILL PROCESSING CHEMICALS, ADHESIVES, AND COATINGS

Add MR-5005 directly to the material to be preserved prior to manufacturing into the finished product, (i.e., pulp, broke, polymers, defoamers, alum, emulsions, adhesives, papermill coatings, pigment slurries, and paper products. The dosage rate will depend upon the material to be preserved and the storage time. The usual addition should be 0.10 - 0.30 lbs./10,000 lbs. (10-30 ppm). Under extreme conditions of spoilage, the dosage rate should be increased to 0.11 - 0.66 lbs/10,000 pounds (12.5 to 80 ppm). The dosage rates are based on a maximum storage time of 2 weeks. For storage time greater than 2 weeks the

ACCEPTED  
with COMMENT  
in EPA Letter dated  
DEC 14 2006

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 67869-44

maximum concentration should be increased to 0.40 - 0.83 lbs/10,000 pounds (50 to 100 ppm). Do not use for adhesives or coatings that involve direct or indirect food, or human drinking water contact application.

**Dosage Rate Per 10,000 Pounds of Material to be Preserved:**

Adhesives:	0.10 - 0.30 lbs (10-30 ppm)
Alum:	0.10 - 0.30 lbs (10-30 ppm)
Broke:	0.10 - 0.30 lbs (10-30 ppm)
Defoamers:	0.10 - 0.30 lbs (10-30 ppm)
Emulsions:	0.10 - 0.30 lbs (10-30 ppm)
Paper products:	0.10 - 0.30 lbs (10-30 ppm)
Papermill coatings:	0.10 - 0.30 lbs (10-30 ppm)
Pigment slurries:	0.10 - 0.30 lbs (10-30 ppm)
Polymers:	0.10 - 0.30 lbs (10-30 ppm)
Pulp:	0.10 - 0.30 lbs (10-30 ppm)

**FOOD PACKAGING**

For paper and paperboard intended for use in contact with food, the rate of application of this product must be adjusted so that the amount of active ingredient (Dodecylguanidine hydrochloride) retained does not exceed 0.4 percent by weight of the paper or paperboard. This product is effective in controlling microorganisms, such as bacteria, fungi, and yeasts, which cause deterioration of paper and paperboard products or articles molded from paper pulp. It may be added to the pulp stock in the beater or applied to the formed sheet by size press or roll coater, or as a uniform spray. If the product is used as a beater additive, the degree of retention of the active ingredient will depend upon the nature of the other additives in the system. Technical service is available from the manufacturer of this product to assist customers in making the proper and most efficient use of the product.

**METAL WORKING FLUIDS, LUBRICANTS AND MINERAL OIL BASED PRODUCTS**

**Dosage Rate Per 10,000 Pounds**

**of Material to be Preserved:**

Mineral Oil-Based Products:	
Boring and Cutting Oils	0.50 - 1.00%

ACCEPTED  
with COMMENTS  
in EPA Letter D-10-10-1

DEC 14 2006

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the Pesticide,  
registered under EPA Reg. N

67869-44

Cooling  
Fluids -  
Concentrate  
... 9.90 - 49.0%

Ready for Use  
... 0.50 - 2.40%

Fuel Oils ... 0.20 - 1.40%  
Hydraulic Oils ... 0.50 - 2.40%

Non-Mineral Oil-Based Products  
Cooling Fluids ... 0.50 - 2.90%  
Cutting Oils ... 0.50 - 2.90%

**TEXTILES**

MR-5005 should be dissolved in suitable solvents such as ethanol, 1,2-propanediol, mineral spirits, or paraffins or can be converted to a water dilutable alkaline concentrate and applied directly to the textile normally by dipping or spraying. The preservative is affixed to the fiber with a suitable acid like acetic acid. For the preservation of auxiliaries, MR-5005 is diluted in solvents as mentioned above or is homogeneously distributed with the aid of alkaline solutions or emulsion concentrates. Print thickeners are preserved by adding MR-5005 directly to the emulsion or homogeneously metered directly into the

dried product. Milling may be necessary in order to obtain consistent particulate sizes.

**Recommended Dosages:**

Auxiliaries (Sizing Agents, Finishing Agents, Awnings and Tarpaulins)	0.90 - 8.70%
Cotton Production	0.90 - 2.60%
Felts	0.90 - 4.30%
Fire Hoses	1.70 - 5.20%
Geotextiles	0.90 - 8.70%
Jute, Sisal	0.90 - 4.30%
Shower Curtains	0.90 - 3.50%
Spinning Preparations, Wetting Agents	0.09 - 0.43%
Upholstery	0.90 - 3.50%
Wool Production	0.90 - 2.60%

**TEMPORARY SAPSTAIN CONTROL FOR FRESH CUT LUMBER AND OTHER LUMBER**

MR-5005 is converted to alkaline liquid and water dilutable formulations by adding sodium hydroxide or other bases or by preparing emulsion concentrates of MR-5005. Auxiliaries may also be added. For the temporary protection of freshly sawn lumber against staining and molding, MR-5005 solutions as prepared above are applied to the freshly sawn lumber by either dipping or spraying.

**Recommended Dosages:**

Construction Woods	1.70 - 7.0%
Fresh Cut Lumber	1.70 - 7.0%
Fruit and Vegetable Containers	1.70 - 5.0%
Pallets	1.70 - 5.0%

NOTICE: Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FOR FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIVES AND WARRANTIES.

**CORROSIVE**

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NOTICE TO BUYER: Buyer assumes all risks of use and handling which are at variance in any way with the directions hereon. There are no quantities, which extend beyond the description on this label.

**8, UN 3265, III**  
**CORROSIVE LIQUID, ACIDIC**  
**ORGANIC, N.O.S.**  
**(CONTAINS: DODECYLGUANIDINE**  
**HYDROCHLORIDE)**