

707-133

9/29/2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 29 2004

SEP 29 2004

Rohm and Haas Company  
727 Norristown Road, CIS, Bldg. 4B  
Spring House, PA 19477

Attention: Valerie T. Phillip  
Regulatory Specialist

Subject: Kathon WT 1.5% Industrial Microbicide  
EPA Registration No. 707-133  
Notification Dated September 14 2004

This will acknowledge receipt of your notification to add the subheadings "Initial Dose" and "Subsequent Dose" under the Directions for Use, submitted under the provisions of FIFRA Section 3(c)(9). Based on a review of the submitted material, the following comments apply.

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely



Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510C)

CONCURRENCES

| SYMBOL  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|
| SURNAME |  |  |  |  |  |  |  |
| DATE    |  |  |  |  |  |  |  |

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

|  |   |  |                               |
|--|---|--|-------------------------------|
|  | United States<br><b>Environmental Protection Agency</b><br>Washington, DC 20460 | <input type="checkbox"/> Registration<br><input type="checkbox"/> Amendment<br><input checked="" type="checkbox"/> Other | OPP Identifier Number<br><br> |
|--|---|--|-------------------------------|

**Application for Pesticide - Section I**

|   |   |  |
|---|---|--|
| 1. Company/Product Number<br>707-133  | 2. EPA Product Manager<br>Marshall Swindell | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted   |
| 4. Company/Product (Name)<br>KATHON WT 1.5% Industrial Microbicide  | PM#<br>33                                   |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br>Rohm and Haas Company<br>727 Norristown Road, CIS, Bldg. 4B<br>Spring House, PA 19477<br><br><input type="checkbox"/> Check if this is a new address |   | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:<br>EPA Reg. No. _____<br><br>Product Name _____ |

**Section - II**

|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.                            | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application.   |
| <input checked="" type="checkbox"/> Notification - Explain below.              | <input type="checkbox"/> Other - Explain below.  |

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION PER PR NOTICE 98-10

**Section - III**

|   |  |   |   |   |  |
|---|--|---|---|---|--|
| 1. Material This Product Will Be Packaged In:   |  |   |   |   |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No   | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | 2. Type of Container                              |   |  |
| * Certification must be submitted   |  |   | If "Yes" Unit Packaging wgt.    No. per container | If "Yes" Package wgt    No. per container                                       | <input checked="" type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><input type="checkbox"/> Other (Specify) _____ |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container                                     |  | 4. Size(s) Retail Container<br>1PT,1QT,1,5,30,55,300,5000 GALLON                                  |   | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label |  |
| 6. Manner in Which Label is Affixed to Product<br><input checked="" type="checkbox"/> Lithograph Paper glued Stenciled <input type="checkbox"/> Other _____ |  |   |   |   |  |

**Section - IV**

|   |                                   |   |
|---|-----------------------------------|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)   |                                   |   |
| Name<br>Valerie T. Phillip  | Title<br>Regulatory Specialist    | Telephone No. (Include Area Code)<br>215-641-7696 |
| Certification<br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. |                                   | 6. Date Application Received.<br>(Stamped)        |
| 2. Signature<br>  | 3. Title<br>Regulatory Specialist |   |
| 4. Typed Name<br>Valerie T. Phillip   | 5. Date<br>Sept. 14, 2004         |   |

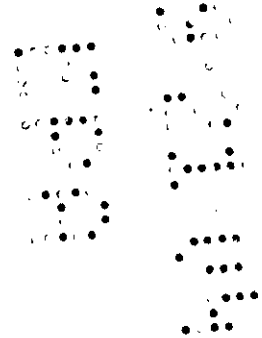
REPLY TO:  
SPRING HOUSE TECHNICAL CENTER  
727 NORRISTOWN ROAD  
P.O. BOX 904  
SPRING HOUSE, PA 19477-0904  
(215) 641-7000



**NOTIFICATION**

September 14, 2004

Mr. Marshall Swindell (PM33)  
Antimicrobial Division  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460



Subject: KATHON™ WT 1.5% Industrial Microbicide  
EPA Registration No. 707-133  
Notification per PR Notice 98-10

Dear Mr. Swindell:

Enclosed please find an application to amend the pesticide registration for the Rohm and Haas Company product KATHON™ WT 1.5% Industrial Microbicide (EPA Reg. No. 707-133). KATHON WT 1.5% is an end use product containing 1.5% of the combined active ingredients, 5-chloro-2-methyl-4-isothiazolin-3-one (CAS# 26172-55-4) and 2-methyl-4-isothiazolin-3-one (CAS# 2682-20-4). This product is registered for use in Industrial Water Treatment systems, Wood Mildew Control, Papermill Slime Control, Air Washer Systems, just to name a few.

We are adding the subheadings "INITIAL DOSE" and "SUBSEQUENT DOSE" under several of the "Direction for Use" headings to clarify the dosing directions and accommodate our customers. The adding of these subheadings does not change the use site, use rate, concentration frequency or method of application.

This notification is consistent with the provisions of PR Notice 98-10 and no other changes have been made to the labeling of this product. I understand that it is a violation of 18 USC Section 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10, this product may be in violation of FIFRA.

Administrative items included in support of this application are as follows:

1. Application of Pesticide Registration (EPA Form #8570-1)
2. Five (5) copies of draft label for notification with changes highlighted

4 8 6

Mr. Marshall Swindell  
U.S. EPA

Sept. 14, 2004  
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Any further questions regarding this submission please contact me.

Sincerely,



Valerie T. Phillip  
Regulatory Specialist  
Consumer and Industrial Specialties  
215-641-7696

/enclosures



# KATHON<sup>®</sup> WT 1.5%

Made In USA

Avg. N  
Avg

5 7 6

Industrial Microbicide for use in Industrial Process Water Systems, Recirculating Water Cooling Towers, Air Washer Systems, Oil Field Injection Waters, Wood Mildew Control, Papermill Slime Control, Dispersed Pigments, Recirculating Closed Loop Water Cooling Systems, Brewery Pasteurizer/Can Warmer/Retort Water Systems, Air Conditioner/Refrigeration Condensate Water Systems, Coal Slurry Systems, Evaporative Condenser Water Systems, Hydrostatic Sterilizer Water Systems, Influent Water Filtration Systems, Immersion Ultrasonic Tank Water, Reverse Osmosis and Ultra Filtration Systems, Industrial Scrubbing Systems, Industrial Wastewater Treatment Systems, Laboratory Equipment Water Baths, Sewage Systems, Paint Spray Booth Systems, and Recirculating Electrodeposition Systems.



## ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one 1.11%  
2-Methyl-4-isothiazolin-3-one 0.39%

## INERT INGREDIENTS:

Total: 98.50%  
100.00%

KEEP OUT OF REACH OF CHILDREN

## DANGER

### FIRST AID

#### IF IN EYES:

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

#### IF ON SKIN:

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

#### IF SWALLOWED:

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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be necessary.

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### DANGER

#### CORROSIVE

CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS

MAY CAUSE ALLERGIC SKIN REACTION

HARMFUL IF INHALED

HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN

Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or mist. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

#### ENVIRONMENTAL HAZARDS

This product 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.

### DISPERSED PIGMENT PRESERVATION

Kathon WT 1.5% microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin and montmorillonite clays, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, and kieselguhr used in paint and paper productions. Add 0.43-1.65 pound of Kathon WT 1.5% (195-750 gram) to each 1000 pound (453 kilogram) of fluid to provide 425 to 1675 ppm product (6.25-25 ppm active isothiazolones).

### AIR WASHER SYSTEMS/ PAINT SPRAY BOOTHS

Add to the air washer sump, chill water sump, or paint spray booth to insure uniform mixing, 35 - 883 ppm Kathon WT 1.5% microbicide (0.3 - 7.46 pound or 4.5 - 113 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system) depending upon the severity of contamination to control bacteria, fungi, and algae which cause fouling in industrial air washer systems and paint spray booths.

### INTERMITTENT OR SLUG METHOD

**INITIAL DOSE:** When the system is noticeably fouled, apply 148 - 883 ppm Kathon WT 1.5% microbicide (1.26 - 7.46 pound or 19 - 113 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system.) Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 35 - 219 ppm Kathon WT 1.5% microbicide (0.3 - 1.86 pound or 4.5 - 28 fluid ounce of Kathon WT 1.5% per 1000 gallon of water) in the system weekly or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

### CONTINUOUS FEED METHOD

**INITIAL DOSE:** When the system is noticeably fouled, apply 148 - 883 ppm Kathon WT 1.5% microbicide (1.26 - 7.46 pound or 19 - 113 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system.)

**SUBSEQUENT DOSE:** Maintain this treatment level by adding a continuous feed of 35 - 219 ppm Kathon WT 1.5% (0.3 - 1.86 pound or 4.5 - 28 fluid ounce of Kathon WT 1.5% per 1000 gallon of makeup water). Badly fouled systems must be cleaned before initial treatment.

**NOTE:** For use only in systems that maintain effective mist-eliminating components.

### WOOD AND WOOD PRODUCTS

Kathon WT 1.5% microbicide is recommended for the protection of wood and wood products, such as landscape timbers, fences, posts, pilings, cross ties, decks, and similar exterior structures from mold and mildew. Treat southern yellow pine, hemlock, ponderosa pine, and other soft woods with 148 - 1000 ppm Kathon WT 1.5% (1.26 - 8.4 pound or 13 - 128 fluid ounce of Kathon WT 1.5% per 1000 gallon) as an aqueous dip or pressure treatment for mold and mildew control. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

### OIL FIELD INJECTION WATERS

For the control of slime-forming and sulfate-reducing bacteria in oil and gas field water systems, including enhanced recovery injection fluids, drilling, fracturing and completion fluids, slug treat with 67 - 332 ppm Kathon WT 1.5% microbicide depending on the severity of contamination.

**INITIAL DOSE:** Add 166 - 332 ppm Kathon WT 1.5% (6.9 - 13.9 gallon or 58.0 - 116.8 pound Kathon WT 1.5% per 1000 barrel of water) at a point in the system where it will be uniformly mixed. Repeat treatment after three days or as needed until control is achieved.

**SUBSEQUENT DOSE:** Add 67-166 ppm Kathon WT 1.5% (2.8 - 6.9 gallon or 23.5 - 58.0 pound Kathon WT 1.5% per 1000 barrel of water) every seven days or as needed to maintain control

### RECIRCULATING ELECTRODEPOSITION SYSTEMS

#### METHOD OF ADDITION

Kathon WT 1.5% microbicide is recommended as a tankside additive for the control of bacteria, fungi, and algae in recirculating electrodeposition systems and associated rinse systems. Alternatively, Kathon WT 1.5% microbicide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

### TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS

Kathon WT 1.5% microbicide should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to ensure uniform mixing.

**INITIAL DOSE:** When the system is noticeably fouled, add 667-2333 ppm Kathon WT 1.5% microbicide (6.7-23.3 gallon per 10,000 gallon of fluid in the system). This will provide 10-35 ppm of active ingredient. Repeat until control is achieved.

g. Gross: LB KG  
Net: LB KG  
g. Tare: LB KG

6 7 6

Container: Label Number  
Code Number WT1.5 EPA

09/14/04

**STORAGE AND DISPOSAL**

**PESTICIDE STORAGE**

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.  
Do not apply this product in a way that will contact workers or other persons.

**PESTICIDE DISPOSAL**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide 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 the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**

**METAL CONTAINERS**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**PLASTIC CONTAINERS**

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

**GENERAL**

**CONSULT FEDERAL, STATE, OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.**

**CONDITIONS OF SALE AND WARRANTY**

Rohm and Haas warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions and as defined the Directions for Use on this label. ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, EITHER OF MERCHANTABILITY OR FITNESS, FOR A PARTICULAR USE. Handling, storage, and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow directions will be assumed by the Buyer or User. TO THE EXTENT PERMITTED BY LAW, NEITHER ROHM AND HAAS NOR SELLER SHALL BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

Date of Manufacture: location for date

EPA Reg. No. 707-133

EPA Est. No. establishment number

**DIRECTIONS FOR USE**

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

For the control of bacteria, algae, and fungi, add Kathon WT 1.5% microbicide to: **industrial process water systems, industrial recirculating water cooling towers, industrial recirculating closed loop water cooling systems, brewery pasteurizers, can warmers, retort water systems, industrial scrubbing systems, evaporative condenser water systems, hydrostatic sterilizer water systems, air conditioner/refrigeration condensate water systems, coal slurry systems, immersion ultrasonic tank water, laboratory equipment water baths and influent water filtration systems.** Add Kathon WT 1.5% microbicide at some point in the system to insure uniform mixing.

**INITIAL DOSE:** When the system is noticeably fouled, apply 148 - 883 ppm Kathon WT 1.5% microbicide (1.26 - 7.46 pound or 19 - 113 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system.) Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

**SUBSEQUENT DOSE:** When microbial control is evident, add 35 - 219 ppm Kathon WT 1.5% microbicide (0.3 - 1.86 pound or 4.5 - 28 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system) weekly or as needed to maintain control.

**PAPERMILLS**

For the control of bacteria, algae and fungi, add Kathon WT 1.5% microbicide to the **Beater, Hydropulper, or Fan or Broke Storage Pumps** or some other point in the system to insure uniform mixing.

Apply 0.44 to 1.5 lb (7 - 23 fluid ounce) of Kathon WT 1.5% microbicide per ton (dry basis) of pulp or paper produced as a slug dose. If needed, repeat daily. Badly fouled systems should be cleaned before initial treatment.

**SUBSEQUENT DOSE:** When microbial control is evident, add 333-1000 ppm Kathon WT 1.5% microbicide (3.3-10 gallon per 10,000 gallon of fluid in the system). This will provide 5-15 ppm of active ingredient. A change of frequency of treatment may be required depending upon the rate of dilution of the preservative with the makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness and system design.

**TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS**

**INITIAL DOSE OF PAINT COMPONENTS**

Kathon WT 1.5% microbicide should be added to the resin, pigment, or other component of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain 333-2333 ppm product (5-35 ppm active ingredient).

**SUPPLEMENTAL TANKSIDE DOSING OF ELECTRODEPOSITION SYSTEMS**

If additional microbial control is necessary, Kathon WT 1.5% microbicide may be added to the electrodeposition system tankside to supplement microbicide incorporated through paint components.

**INITIAL DOSE:** If the system becomes noticeably fouled, add 667 - 2333 ppm Kathon WT 1.5% microbicide (6.7 - 23.3 gallon per 10,000 gallon of fluid in the system). This will provide 10 - 35 ppm of active ingredient. Repeat until control is achieved

**SUBSEQUENT DOSE:** When microbial control is evident, add 333-1000 ppm Kathon WT 1.5% microbicide (3.3-10 gallon per 10,000 gallon of fluid in the system) weekly or as needed. This will provide 5-15 ppm of active ingredient.

**NOTE:** Regardless of the manner of incorporation, the total active ingredient level in the system should at no time exceed 35 ppm (equivalent to 2333 ppm Kathon WT 1.5% microbicide or 23.3 gallon per 10,000 gallon system fluid).

Kathon WT 1.5% Microbicide weighs 8.4 lb/gallon.

**ULTRA FILTRATION UNITS AND NON-MEDICAL/NON-POTABLE REVERSE OSMOSIS SYSTEMS**

Kathon WT 1.5% Microbicide is recommended for the control of bacteria and fungi in ultra filtration units and non-medical/non-potable reverse osmosis systems. Use of Kathon WT 1.5% microbicide in potable water or dialysis is prohibited. Add 10 - 333 ppm of Kathon WT 1.5% microbicide (0.15 - 5 ppm active ingredient) into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of Kathon WT 1.5% microbicide with reverse osmosis membranes should be confirmed with membrane manufacturers.

For the control of bacteria and fungi in carbon beds, add 10 - 333 ppm of Kathon WT 1.5% microbicide (0.15 - 5 ppm active ingredient) by either continuous or batch feed.

For periodic membrane cleaning, add 0.4 - 1.0 lb of Kathon WT 1.5% microbicide to every 120 gallon of cleaning solution (6 - 15 ppm active ingredient). Badly fouled systems should be cleaned before treatment is begun.

**INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS**

Kathon WT 1.5% microbicide is recommended for the control of bacteria, fungi, and algae in industrial wastewater treatment and sewage systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

**INITIAL DOSE:** When the system is noticeably fouled, apply 148 - 883 ppm Kathon WT 1.5% microbicide (1.26 - 7.46 pound or 19 - 113 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system.) Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

**SUBSEQUENT DOSE:** When microbial control is evident, add 35 - 219 ppm Kathon WT 1.5% microbicide (0.3 - 1.86 pound or 4.5 - 28 fluid ounce of Kathon WT 1.5% per 1000 gallon of water in the system) weekly or as needed to maintain control.