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CENTER PANEL

KATHON MX

INDUSTRIAL MICROBICIDE FOR USE IN RECIRCULATING WATER COOLING TOWERS, AIR WASHER SYSTEMS, METALWORKING FLUIDS, PHOTOPROCESSING SYSTEMS AND PAPERMILL SLIME CONTROL.

ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one. . . . . 4.3%

2-Methyl-4-isothiazolin-3-one . . . . . 1.3%

INERT INGREDIENTS: . . . . . 94.4%

Total 100.0%

U.S. Pat. No. 3,761,488; 4,279,762; 4,396,413 and other patents pending.

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

IF ON SKIN: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician.

IF INHALED: Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

DO NOT REMOVE PACKAGES FROM CONTAINER EXCEPT FOR IMMEDIATE USE.

MANUFACTURED BY  
ROHM AND HAAS COMPANY

EPA Est. No. 33967-NJ-1  
EPA Reg. No. 707-171

ACCEPTED  
WITH COMMENTS  
in EPA Reg. No. 707-171

NET CONTENTS \_\_\_\_\_ PACKETS  
UNIT PACKET WEIGHT \_\_\_\_\_ OUNCES  
NET WEIGHT \_\_\_\_\_ LBS.

GRA:mel  
(0163H/401Z)  
6/14/84

JUL 31 1984  
EPA Reg. No. 707-171

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LEFT PANEL

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE

CAUSES EYE DAMAGE AND SKIN BURNS  
MAY CAUSE ALLERGIC SKIN REACTION  
MAY BE HARMFUL IF INHALED  
MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN

Do not get in eyes, on skin, 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 pesticide is toxic to fish and wildlife. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance, contact your 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.

CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the 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 under normal conditions of use. 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 label directions will be assumed by the Buyer or User. IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

ACCEPTED  
with COMMENTS  
by EPA Reg. Div.

JUL 31 1964

Product Name: \_\_\_\_\_  
EPA Reg. No. \_\_\_\_\_  
707-171

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RIGHT PANEL

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 31 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
707-171

DIRECTIONS FOR USE

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

METALWORKING FLUIDS

Kathon MX is supplied as a premeasured packet for the control of bacteria and fungi in soluble and emulsifiable type aqueous metalworking fluids. These fluids are usually prepared by diluting the product concentrate 1:40 to 1:60 with water.

FOR TREATMENT OF 50 GALLON SYSTEMS

For the maintenance of a non-fouled system, add one unopened 2 ounce packet to 50 gallons of metalworking fluid every 2-4 weeks. For a noticeably fouled system, use an initial dose of one or two unopened 2 ounce packets per 50 gallons of metalworking fluid every 1-2 weeks and follow with maintenance dosage noted above. Higher dosage range and/or frequency of treatment may be required depending on dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

FOR TREATMENT OF 100 GALLON SYSTEMS

For the maintenance of a non-fouled system, add one unopened 4 ounce packet to 100 gallons of metalworking fluid every 2-4 weeks. For a noticeably fouled system, use an initial dose of one or two unopened 4 ounce packets per 100 gallons of metalworking fluid every 1-2 weeks and follow with maintenance dosage noted above. Higher dosage range and/or frequency of treatment may be required depending on dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

FOR TREATMENT OF 500 GALLON SYSTEMS

For the maintenance of a non-fouled system, add one unopened 20 ounce packet to 500 gallons of metalworking fluid every 2-4 weeks. For a noticeably fouled system, use an initial dose of one or two unopened 20 ounce packets per 500 gallons of metalworking fluid every 1-2 weeks and follow with maintenance dosage noted above. Higher dosage range and/or frequency of treatment may be required depending on dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

The unopened packet should be added at a point in the system, such as the sump or reservoir, where the timed release of the active ingredients will be uniformly dispersed throughout the metalworking fluid. Remove packet from system before the addition of additional packets or after 4 days. Dispose according to pesticide disposal instructions. Completely drain, clean and add fresh metalworking fluid and preservative every 3-6 months or when system shows signs of deterioration or fouling.

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PHOTOPROCESSING SYSTEMS

Kathon MX is supplied as a premeasured packet for the control of bacteria, algae and fungi in photodeveloping wash waters including motion picture, radiographic, micrographic, graphic arts and photoprocessing film.

FOR TREATMENT OF 50 GALLON SYSTEMS

For the maintenance of a non-fouled system, add one unopened 2 ounce packet to 50 gallons of photodeveloping wash water every 2-4 weeks. For a noticeably fouled system, use an initial dose of one or two unopened 2 ounce packets per 50 gallons of photodeveloping wash water solution every 1-2 weeks and follow with maintenance dosage noted above. Higher dosage range and/or frequency of treatment may be required depending on dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

FOR TREATMENT OF 100 GALLON SYSTEMS

For the maintenance of a non-fouled system, add one unopened 4 ounce packet to 100 gallons of photodeveloping wash water every 2-4 weeks. For a noticeably fouled system, use an initial dose of one or two unopened 4 ounce packets per 100 gallons of photodeveloping wash water every 1-2 weeks and follow with maintenance dosage noted above. Higher dosage range and/or frequency of treatment may be required depending on dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

FOR TREATMENT OF 500 GALLON SYSTEMS

For the maintenance of a non-fouled system, add one unopened 20 ounce packet to 500 gallons of photodeveloping wash water every 2-4 weeks. For a noticeably fouled system, use an initial dose of one or two unopened 20 ounce packets per 500 gallons of photodeveloping wash water every 1-2 weeks and follow with maintenance dosage noted above. Higher dosage range and/or frequency of treatment may be required depending on dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

The unopened packet should be added to the wash water where the timed release of the active ingredients will be uniformly dispersed throughout the system. Remove packet from system before the addition of additional packets or after 4 days. Dispose according to pesticide disposal instructions.

GRA:me1  
(0163H/4012)  
6/15/84

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ACCEPTED  
WITH COMMENTS  
JUL 31 1984  
EPA Reg. No. 707-171

## INDUSTRIAL RECIRCULATING WATER COOLING TOWER

For the control of bacteria, algae, and fungi, add Kathon MX to the tower basin, distribution box, or some other point to insure uniform mixing. Badly fouled systems must be cleaned before treatment is begun.

### FOR TREATMENT OF 1,000 GALLON SYSTEMS

**INITIAL DOSE:** When the system is noticeably fouled, add 3 to 15 unopened 2 ounce packets to 1,000 gallons of cooling tower water (45-225 ppm Kathon MX). Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 1 to 5 unopened 2 ounce packets to 1,000 gallons of cooling tower water (15-75 ppm Kathon MX) weekly or as needed to maintain control.

### FOR TREATMENT OF 2,000 GALLON SYSTEMS

**INITIAL DOSE:** When the system is noticeably fouled, add 3 to 15 unopened 4 ounce packets to 2,000 gallons of cooling tower water (45-225 ppm Kathon MX). Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 1 to 5 unopened 4 ounce packets to 2,000 gallons of cooling tower water (15-75 ppm Kathon MX) weekly or as needed to maintain control.

### FOR TREATMENT OF 10,000 GALLON SYSTEMS

**INITIAL DOSE:** When the system is noticeably fouled, add 3 to 15 unopened 20 ounce packets to 10,000 gallons of cooling tower water (45-225 ppm Kathon MX). Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 1 to 5 unopened 20 ounce packets to 10,000 gallons of cooling tower water (15-75 ppm Kathon MX) weekly or as needed to maintain control.

### AIR WASHER SYSTEMS

Add to the air washer sump or chill water sump to insure uniform mixing 15 to 225 ppm Kathon MX per 1,000 gallons of water in the system depending upon the severity of contamination to control bacteria, algae, and fungi which cause fouling in industrial air washer systems. Badly fouled systems must be cleaned before treatment is begun.

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ACCEPTED  
JUL 31 1964  
707-171

FOR TREATMENT OF 1,000 GALLON SYSTEMS

INITIAL DOSE: When the system is noticeably fouled, add 3 to 15 unopened 2 ounce packets to 1,000 gallons of water in the system (45-225 ppm Kathon MX). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 1 to 5 unopened 2 ounce packets to 1,000 gallons of water (15-75 ppm Kathon MX) weekly or as needed to maintain control.

FOR TREATMENT OF 2,000 GALLON SYSTEMS

INITIAL DOSE: When the system is noticeably fouled, add 3 to 15 unopened 4 ounce packets to 2,000 gallons of water in the system (45-225 ppm Kathon MX). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 1 to 5 unopened 4 ounce packets to 2,000 gallons of water (15-75 ppm Kathon MX) weekly or as needed to maintain control.

FOR TREATMENT OF 10,000 GALLON SYSTEMS

INITIAL DOSE: When the system is noticeably fouled, add 3 to 15 unopened 20 ounce packets to 10,000 gallons of water in the system (45-225 ppm Kathon MX). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 1 to 5 unopened 20 ounce packets to 10,000 gallons of water (15-75 ppm Kathon MX) weekly or as needed to maintain control.

NOTE: For use only in industrial air washing systems that maintain effective mist eliminating components.

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ACCEPTED  
ELEMENTS  
DATE 10/1/84  
OCT 31 1984  
FEDERAL INSTITUTE OF PESTICIDE CONTROL AND PHITOTICIDES  
LPA Reg. No.  
707-111

## PAPERMILLS

For the control of bacterial and fungal slime in the production of paper, add Kathon MWX to the Beater, Hydropulper or some other point in the system to ensure uniform mixing. Badly fouled systems must be cleaned before treatment is begun.

**DOSAGE:** Apply 1 to 7 unopened 2 ounce packets of Kathon MWX per 2 tons (dry basis) of pulp or paper produced. Alternatively apply 1 to 7 unopened 4 ounce packets of Kathon MWX per 4 tons (dry basis) of pulp or paper produced. For large systems, apply 1 to 7 unopened 20 ounce packets of Kathon MWX per 20 tons (dry basis) of pulp or paper produced.

Repeat daily or as needed to maintain control.

## STORAGE AND DISPOSAL

### PROHIBITIONS

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.

### PESTICIDE DISPOSAL

Do not empty contents from plastic packet. Dispose of entire packet and contents according to Federal or approved state procedure under Subtitle C of the Resources Conservation and Recovery Act.

### CONTAINER DISPOSAL

Outer container may be disposed of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Plastic packet must be disposed of according to pesticide disposal instructions.

### GENERAL

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

GRA:me1  
(0163H/4012)  
6/15/84

ACCEPTED  
EPA REG. NO. 701-171  
JUL 1 1984  
EPA Reg. No.  
701-171

BEST DOCUMENT AVAILABLE

UNIT PACKAGE LABEL

9681 RD

**KATHON® MWX**

**ACTIVE INGREDIENTS:**

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ..... 6.3%  
2-METHYL-4-ISOTHIAZOLIN-3-ONE ..... 1.3%  
INERT INGREDIENTS: ..... 94.4%

EPA REGISTRATION NO. 707-171

**KEEP OUT OF REACH OF CHILDREN**

**DANGER:** SEE LABEL OF OUTER PACKAGE FOR DIRECTIONS FOR USE AND PRECAUTIONS

**CONTAINER DISPOSAL:** DISPOSE OF ENTIRE PLASTIC PACKET AND CONTENTS ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURE UNDER SUBTITLE C OF THE RESOURCES CONSERVATION AND RECOVERY ACT.

ROY M AND HAAS COMPANY, PHILADELPHIA, PA 19105

NET WT. 2 OUNCES

APPROVED  
SUBMIT  
707-171

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31 JUL 1984

**BEST DOCUMENT AVAILABLE**

Rohm and Haas Company  
Independence Mall West  
Philadelphia, PA 19105

Attention: G. R. Ackermann  
Manager, Government Regulatory Affairs

Gentlemen:

Subject: Kathon HWX  
EPA Registration No. 707-171  
Your Submissions of July 3 and July 17, 1984

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- a. Include the company address on the center panel.
- b. We have no documentation in our files that algae is a problem in the photoprocessing industry.
- c. Add a similar statement to the photoprocessing systems section:

NOTE: The user is advised that he must maintain a level of discharge into the publicly owned treatment works which is in compliance with the recommended guidelines for the photoprocessing industry. Contact your Regional EPA Office for guidance.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

NAME						
ADDRESS						
PHONE						
DATE						

EPA 1 4- OFFICIAL FILE COPY

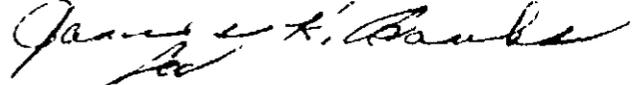
7/27/84

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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 bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosure

RD/DIS:J.Lee:DCR-32064:WANG-0065L:eg:Raven:479-2013:7/26/84:Del.8/10/84

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