
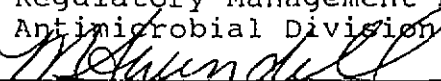


Acceptance Stamp on pg. 5

|   |                               |  |
|---|-------------------------------|--|
|  <p>U.S. ENVIRONMENTAL PROTECTION AGENCY<br/>Office of Pesticide Programs<br/>Registration Division (H7505C)<br/>401 "M" St., S.W.<br/>Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE:<br/><input checked="" type="checkbox"/> Registration<br/><input type="checkbox"/> Reregistration</p> <p>(under FIFRA, as amended)</p>  | EPA Reg. Number.              | Date of Issuance.                        |
|   | 707-259                       | NOV - 6 1997                             |
|   | Term of Issuance. Conditional |  |
| Name of Pesticide Product:  |                               | Klarix<br>4000 Industrial<br>Microbicide |
| Name and Address of Registrant (include ZIP Code):<br>Rohm and Haas Company<br>100 Independence Mall West<br>Philadelphia, PA 19106-2399  |                               |  |
| <p>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.</p> <p>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</p> <p>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.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li> <li>Make the following label changes:             <ol style="list-style-type: none"> <li>Revise the EPA Registration Number to read, "EPA Registration No. "707-259".</li> </ol> </li> </ol> |                               |  |
| Marshall Swindell, Acting PM-33<br>Regulatory Management Branch 1<br>Antimicrobial Division (7510W)<br>  | Date.<br>NOV - 6 1997         |  |

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EPA Reg. No. 707-259

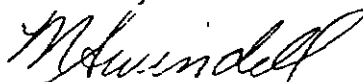
3. Submit two copies of the revised final printed label for the record.

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.

If you have any questions concerning this letter, please contact Martha Terry at 703-305-6217.

Sincerely,



Marshall Swindell  
Acting Product Manager 33  
Regulatory Management Branch 1  
Antimicrobial Division (7510W)

Enclosure

# KLARIX™ 4000

Industrial Microbicide for use in Recirculating Water Cooling Towers, Air Washer Systems, Pulp Mills, Papermill Slime Control, Recirculating Closed Loop Water Cooling Systems, Decorative Fountains, Can Warmer and Brewery Pasteurizers, and Dispersed Pigments.

|  |         |
|--|---------|
| <b>ACTIVE INGREDIENT:</b>                  |         |
| 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone | 4.25%   |
| <b>INERT INGREDIENTS:</b>                  |         |
|  | 95.75%  |
| <b>TOTAL:</b>                              |         |
|  | 100.00% |

**KEEP OUT OF REACH OF CHILDREN  
DANGER  
STATEMENT OF PRACTICAL TREATMENT**

- IF IN EYES:** Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.
- IF ON SKIN:** Wash with plenty of soap and water. Get attention if symptoms persist.
- IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.
- IF SWALLOWED:** Call a physician or Poison Control Center. 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.
- NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

**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 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.

### DIRECTIONS FOR USE

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

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS**  
 For the control of bacteria, algae and fungi add Klarix 4000 microbicide to the tower basin, distribution box, or some other point to insure uniform mixing. Treatment may be made by slug dosing or continuous dosing to achieve the desired level of biocide.

For noticeably fouled systems, apply 47 - 141 ppm Klarix 4000 microbicide (2 - 6 ppm active ingredient) (0.39 - 1.2 pound or 5.9 - 18 fluid ounce) per 1000 gallon of water. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

When microbial control is evident, add 5.9 - 47 ppm Klarix 4000 microbicide (0.25 - 2 ppm active ingredient) (0.05 - 0.39 pound or 0.74 - 5.9 fluid ounce) per 1000 gallon of water. Dose weekly or as needed to maintain control.

**INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS**  
 For the control of bacteria, algae and fungi add Klarix 4000 microbicide to the reservoir, recirculating line or some other point in the system to insure uniform mixing.

For noticeably fouled systems, apply 47 - 141 ppm Klarix 4000 microbicide (2 - 6 ppm active ingredient) (0.39 - 1.2 pound or 5.9 - 18 fluid ounce) per 1000 gallon of water. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

When microbial control is evident, add 24 - 47 ppm Klarix 4000 microbicide (1 - 2 ppm active ingredient) (0.20 - 0.39 pound or 2.95 - 5.9 fluid ounce) per 1000 gallon of water. Dose weekly or as needed to maintain control.

**AIR WASHER SYSTEMS**  
 Add Klarix 4000 microbicide to the air washer sump or chill water sump to insure uniform mixing for control of fungi, bacteria and algae.

For noticeably fouled systems, apply 47 - 141 ppm Klarix 4000 microbicide (2 - 6 ppm active ingredient) (0.39 - 1.2 pound or 5.9 - 18 fluid ounce) per 1000 gallon of water. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

When microbial control is evident, add 12 - 47 ppm Klarix 4000 microbicide (0.50 - 2 ppm active ingredient) (0.10 - 0.39 pound or 1.58 - 5.9 fluid ounce) per 1000 gallon of water. Dose weekly or as needed to maintain control.

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

**DISPERSED PIGMENTS PRESERVATION**  
 Klarix 4000 microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin and montmorillite clays, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, and magnesium silicate used in paint and paper production. Add 2 - 9.8 pound (30 - 148 fluid ounce) of Klarix 4000 microbicide per 1000 pound of fluid to provide 235 - 1176 ppm product (10-50 ppm active ingredient).

This product is not cleared by FDA or EPA for use in the manufacture of paper and paper board products, including dispersed pigments, pulp slurries, paper coatings, paper and paper board, that may come in contact with food.

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LB KG  
LB KG  
LB KG



100 INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19106  
TELEPHONE: (215) 592-3000

Lot  
Number  
( )

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER  
CORROSIVE  
CAUSES IRREVERSIBLE EYE DAMAGE  
HARMFUL IF ABSORBED THROUGH THE SKIN  
AVOID CONTACT WITH SKIN OR CLOTHING  
HARMFUL IF INHALED  
MAY CAUSE ALLERGIC SKIN REACTION**

This product is a dermal sensitizer. Do not get in eyes, on skin, or on clothing. Wear goggles and face shield, protective clothing and rubber gloves. Avoid breathing vapor or spray mist. Keep container closed. Use with adequate ventilation. Do not take internally. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates. 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 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.

**PAPERMILLS**

To control fungal, bacterial and algal growth on paper and paperboard machines, add Klarix 4000 microbicide at 0.1 - 0.8 pound (1.5 - 12 fluid ounce) per ton of dry paper or paperboard produced at a location to insure uniform mixing (including beaters, wire pit, saveall tanks, headbox or machine chest). Treatment may be by slug or continuous dosing to achieve 12 - 94 ppm Klarix 4000 microbicide. (0.5 - 4 ppm active ingredient) in the wet end portion of the system. Dosing frequency will depend on mill conditions and the level of microbial fouling.

For preparation of mold-resistant non-food contact paper or paperboard, Klarix 4000 microbicide may be dosed to achieve 588 - 2,353 ppm product (25 - 100 ppm active ingredient) on the final paper (dry basis). For uncoated paper or board, Klarix 4000 microbicide may be added to the surface sizing solution, water or other solvents and applied to the surface of the paper by means of applicator roll. It may also be added directly to the pulp slurry at the machine chest or headbox. For coated paper or paperboard, Klarix 4000 microbicide is incorporated into the coating mix prior to application of the coating to the paper.

For the preservation of agricultural mulch paper, Klarix 4000 microbicide should be added at 1.2 - 4.8 pound (18 - 72 fluid ounce) per ton of dry paper. It is applied to the surface of the mulch paper by spray or applicator roll before the paper is coated.

This product is not cleared by FDA or EPA for use in the manufacture of paper and paper board products, including dispersed pigments, pulp slurries, paper coatings, paper and paper board, that may come in contact with food.

**PULP MILLS**

To prevent fungal degradation of wood chips during storage, add Klarix 4000 microbicide at 0.6 - 3.5 pound (9 - 55 fluid ounce) per ton of oven-dry wood. It may be applied by water sewer or drip feeder during transport of the chips on a conveyor belt to the storage pile.

For preservation of wet-lap or sheet pulp, Klarix 4000 microbicide should be added at 1.2 - 4.8 pound (18 - 72 fluid ounce) per ton of oven-dry dry fiber. It may be applied directly to the surface of the dewatered sheet by spray, water shower or application rollers or it may be dosed in the pulp slurry prior to dewatering of the sheet.

This product is not cleared by FDA or EPA for use in the manufacture of paper and paper board products, including dispersed pigments, pulp slurries, paper coatings, paper and paper board, that may come in contact with food.

**DECORATIVE FOUNTAINS**

For the control of algae, fungi and bacteria, add Klarix 4000 microbicide to the basin, recirculation line or some other point in the system to insure uniform mixing. Treatment may be by slug dosing or continuous dosing to achieve the desired level of biocide.

For noticeably fouled systems, apply 47 - 141 ppm Klarix 4000 microbicide (2 - 6 ppm active ingredient) (0.39 - 1.72 pound or 5.9 - 18 fluid ounce) per 1000 gallon of water. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

When microbial control is evident, add 5.9 - 47 ppm Klarix 4000 microbicide (0.25 - 2 ppm active ingredient) (0.05 - 0.39 pound or 0.74 - 5.9 fluid ounce) per 1000 gallon of water. Dose weekly or as needed to maintain control.

Product Code (91)

«LN1»

Container Code Number «SN1» Label Number KLARXEPA

STORAGE AND DISPOSAL PROHIBITIONS

This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

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.

Date of Manufacture: location for date EPA Reg. No. 707- EPA Est. No. establishment number

ACCEPTED with COMMENTS in EPA Letter Dated: NOV - 6 1997

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

707-259

CAN WARMERS AND BREWERY PASTEURIZERS

For the control of bacteria, algae and fungi in brewery pasteurizer and can warmer systems, add Klarix 4000 microbicide at a point in the system to insure uniform mixing.

For noticeably fouled systems, apply 47 - 141 ppm Klarix 4000 microbicide (2 - 6 ppm active ingredient) (0.39 - 1.2 pound or 5.9 - 18 fluid ounce) per 1000 gallon of water. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

When microbial control is evident, add 5.9 - 47 ppm Klarix 4000 microbicide (0.25 - 2 ppm active ingredient) (0.05 - 0.39 pound or 0.74 - 5.9 fluid ounce) per 1000 gallon of water. Dose weekly or as needed to maintain control.

Klarix™ 4000 microbicide weighs 8.5 pound per gallon.

