10/6/2009



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Valeria T. Phillip Regulatory Specialist for, Rohm and Haas Company 100 Independence Mall West Philadelphia, PA 19106-2366

0CT - 62009

Subject: Klarix<sup>™</sup> 4000 Industrial Microbicide EPA Registration Number 707-259 Your Amendment Dated August 14<sup>th</sup>, 2009 EPA Received Date August 28<sup>th</sup>, 2009

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act(FIFRA), as amended, to update the product label as PR Notice 2007-4, add emergency contact number and align the "First Aid and Precautionary Statement sections", is acceptable

A stamped copy of the labeling is enclosed.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely,

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

FILE # 000707-00259.20080402.PRN2007-4 AMEND KLAR4000.pdf

# KLARIX<sup>TM</sup> 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



ACTIVE INGREDIENT: 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone INERT INGREDIENTS: 4.25% 95.75%

100.00%

OCT - 6 2009 Under the Federal Insecticide,

ACCEPTED with COMMENTS EPA Letter Dated:

Fungicide, and Rodenticide Act as amended, for the pesticide,

## KEEP OUT OF REACH OF CHILDREN <sup>registered under EPA Reg. No. 787-357</sup> DANGER FIRST AID

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 treatment advice.
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 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 SWALLOWED:	•Call a poison control center or doctor immediately for treatment 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. Do not give anything to an unconscious person.

TOTAL:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IN CASE OF EMERGENCY CALL ROHM AND HAAS COMPANY 215-592-3000

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 HARMFUL IF ABSORBED THROUGH THE SKIN CAUSES SKIN IRRITATION HARMFUL IF INHALED MAY CAUSE ALLERGIC SKIN REACTION

## FILE # 000707-00259.20080402.PRN2007-4 AMEND KLAR4000.puf

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 product 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.

#### STORAGE AND DISPOSAL

#### PESTICIDE STORAGE

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. Keep product from freezing.

#### 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

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.

**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 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 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.

Date of Manufacture: location for date EPA Reg. No. 707-259 EPA Est. No.

#### DIRECTIONS FOR USE

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

#### Refer to the table at the end of this section for dosing details for the following applications. 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. 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.

#### 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 fould systems, repeat until control is achieved. Badly fould systems should be cleaned before treatment is begun.

16. 61 product	n oz or product		ppm active
<u>per 1000 gal fluid</u>	per 1000 gal fluid	<u>ppm of product</u>	<u>ingredient</u>
0.39 lb.	5.9 fl oz	. 47 ppm	2 ppm
1.20 lb.	18 fl oz	141 ppm	6 ppm

When microbial control is evident, dose weekly or as needed to maintain control.

lb. of product	fl oz of product		ppm active
per 1000 gal fluid	per 1000 gal fluid	<u>ppm of product</u>	ingredient
0.05 lb.	0.74 fl oz	5.9 ppm	0.25 ppm
0.39 lb.	5.90 fl oz	47.0 ppm	2.0 ppm

ACCEPTED with COMMENTS EPA Letter Dated: OCT - 6 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 707-359

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#### 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.

#### 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

#### The active ingredient in Klarix 4000 has Clearances under 21CFR 176.170 (a)(b),

21CFR 176.180 (b)(1) and 21CFR 176.300 (c) for the following uses: wet lap and

sheet pulp, pigment dispersions, mold proofing, components of paper and paperboard in contact with aqueous, fatty and dry foods, and papermill slimicide.

#### 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 0.24 - 1.2 pound (3.6 - 18 fluid ounce) of Klarix 4000 microbicide per 1000 pound of fluid to provide 235 - 1176 ppm product (10-50 ppm active ingredient).

#### 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.

#### PULP MILLS

To prevent fungal degradation of wood chips during storage, add Klarix 4000 microbicide at 0.6 - 3.5 pound (9 - 53 fluid ounce) per ton of oven-dry wood. It may be applied by water shower 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 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.

Klarix<sup>™</sup> 4000 microbicide weighs 8.5 pound per gallon.

ACCEPTED with COMMENTS EPA Letter Dated: 0CT - 6 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 707-259

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