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

OCT 1 7. 2003

Mr. James V. Hagan Regulatory & Product Stewardship Management for, Rohm and Haas Company 100 Independence Mail West Philadelphia, P A 19106-2399

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject: Klarix 4000

EPA Registration Number 707-259 Amendment Dated September 26, 2003

The Agency is conditionally approving your amendment to the registration of the product referenced above under the authority of FIFRA section 3(c)(7)(B). This amendment allows use of the subject product as a mold proofing agent, a preservative in wet lap and sheet pulp, and in pigment dispersions and as a papermill slimicide when incorporated in the manufacture of paper and paperboard intended to contact dry as well as fatty food listed in 21 CFR part 176.180, or on FDA's "Food Contact Substance Notification Systems."

This amendment will expire automatically on September 15, 2004. In addition, during the 1 year period that this amendment is effective, it will be subject to the conditions listed below.

- 1. This acceptance is based on your commitment letter dated July 19th, 2000, in which you state that you intend to fulfill all data requirements to support the addition of food contact uses to the above referenced product label.
- 2. The following data must be submitted, and found acceptable by September 15\ 2004 and the Agency must complete its Risk Assessment for this new use pattern.

This conditional registration will expire automatically on September 15\ 2004. Sale or distribution of the subject product bearing labeling for these food contact uses after September 15\ 2004, will be illegal.

The study entitled, "Two-Generation Reproduction Study" (MRID No. 457565-01) has been classified as being acceptable. This study satisfies the guideline requirement (84-3) for a Reproduction and Fertility Effects/Rat.

The study entitled, "Subchronic toxicity study" (MRID No. 457472-01) has been classified as being acceptable. This study satisfies the guideline requirement (82-1) for a 90-day Subchronic oral toxicity study in the Dog.

Copies of the Data Evaluation Records (DERs) are enclosed for your records.

The Agency is in the process of completing its risk assessment for the food contact paper use pattern and will inform you of our results and further requirements if any in the near future.

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

If you have any questions concerning this letter please contact Marshall Swindell at 703-308-6341.

Sincerely yours,

Marshall Swindell
Product Manager 33

Regulatory Management Branch 1 Antimicrobials Division (7510C) Brewery Pasteurizers, and Dispersed Pigments.

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

«Call a poison control center or doctor for advice.

respiration, preferably mouth to-mouth.

by mouth to an unconscious person.

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

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicatie the use of gastric lavage.

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Measures against circulatory shock, respiratory depression and convulsions may be necessary.

Call a poison control center or doctor for advice.

•Rinse skin immediately with plenty of water for 15-20 min.

Call a poison control center or doctor for treatment advice.

*Call a poison control center or doctor immediately for advice.

. Hold eye open and rinse slowly and gently with water for 15-20 min.

•Remove contact lesses, if present, after first 5 min. then continue rinsing

olf person is not breathing, call 911 or an ambulance, then give artificial

Do not induce vomiting unless told to do so by a poison control center or

·Have person sip a glass of water if able to swallow. Do not give anything

•Take off contaminated clothing.

Move nerson to fresh air.

Washer Systems, Pulp Mills, Papermill Slime Control, Recirculating Closed Loop Water Cooling Systems, Decorative Fountains, Can Warmer and

TOTAL:

Made In USA

Lot Number

Industrial Microbicide for use in Recirculating Water Cooling Towers, Air PUH ADEL PHIA PA 19104 TELEPHONE: (215) 592-3000

Product Code: 7-8225

ACTIVE INGREDIENT:

IF ON SKIN:

IF IN EYES:

IF INHALED:

IF SWALLOWED:

4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone

INERT INGREDIENTS:

4.25% 95.75%

100.00%

DANGER

CORROSIVE CAUSES IRREVERSIBLE EYE DAMAGE HARMFUL IF ABSORBED THROUGH THE SKIN

CAUSES SKIN IRRITATION 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.

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. Keep product from freezing.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is 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 disnose 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

Robes and Haas warrants that this product conforms to its chemical description and is res stated on the label only when used in accordance with label directions under normal conditions of one. ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, EXTHER OF MERCHANTABILITY OR FITNESS, FOR A PARTICULAR USE. Handling, storage, and use of the product by Buyer or User are bey control of Robers and Mass and Select. Risks such as ineffectiveness or other managed consequences results. 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 INDERECT 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. 707-TX-1

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 misteliminating components.

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING

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

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

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

DISPERSED PIGMENTS PRESERVATION

Klarix 4000 microbicide is recommended for the control of bacteria and function 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.

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 - 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™ 4000 microbicide weighs 8.5 pound per gallon.

DIREC If it a vis labeling

Refer to applicat INDUS For the o basin, di he made CAN W For the systems,

mixing. DECOR For the o necircula Treatme biocide.

For noti should b lb. of pr per 100

0.39 1.20 When m

b. of pr per 100 0.05 0.39