

707-299

10/1/2009

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



Office of Pesticide Programs

Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399

OCT - 1 2009

Attention: Valerie Phillips

Subject: KORDEK™ MLX Industrial Microbicide
EPA Registration No. 707-299
Amendment Dated August 14, 2009

The amendment, 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 an emergency contact number and align the First Aid and Precautionary Statements sections for label consistency, is acceptable, provided you make the following revisions:

Revise the Container Disposal to read as follows:

“Nonrefillable container. Do not reuse or refill the container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration or by approved state and local authorities”.

A stamped copy of the “accepted” product labeling is enclosed for your records.

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 (7510P)

Enclosure

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KORDEK™ MLX

Industrial Microbicide for use in Polymer Latices, Adhesives, Tackifiers, Mineral Dispersions, Printing Fluid, Electronic Chemicals Preservation, Industrial Water Treatment Systems, Air Washer systems, Oil Field Injection Waters, Recirculating Electrodeposition Systems, Papermills, Membrane Filtration and Reverse Osmosis Systems, Industrial Wastewater and Sewage Systems



ACTIVE INGREDIENTS:

2-Methyl-4-isothiazolin-3-one

9.7%

INERT INGREDIENTS:

90.3%

Total: 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

ACCEPTED
with COMMENTS
EPA Letter Dated:

OCT - 1 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 707-299

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.

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 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, or on clothing. Mixers, loaders and others exposed to this product must wear: long-sleeved shirt and long pants; chemical resistant gloves such as nitrile or butyl rubber, shoes plus socks; goggles and face shield; and chemical resistant apron. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. This product may cause skin sensitization reactions in some people.

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.

**STORAGE AND DISPOSAL
PESTICIDE STORAGE**

This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Do not contaminate 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

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:
EPA Reg. No. 707-299
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 bottom of this section for dosing details for the following applications.

MINERAL DISPERSION PRESERVATON

Kordek MLX is recommended for the control of bacteria and fungi in the manufacture and storage of mineral dispersion. NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should at no time exceed 150 ppm in the final use dilution.

PRINTING FLUID PRESERVATIVE

Kordek MLX microbicide is recommended for the control of bacteria and fungi in water-based printing inks, such as flexographic, gravure, screen, and ink jet printing inks.

Kordek MLX microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners.

Kordek MLX microbicide is recommended for the control of bacteria and fungi in fountain solutions used for lithographic printing operations. Kordek MLX should only be used in those fountain solution concentrates which are automatically diluted with water.

Kordek MLX is also recommended as a preservative for photoplate processing chemicals such as stabilizer solutions. Kordek MLX should be added to the fountain solution concentrate or processing chemical concentrate at a level to ensure that the final use-dilution fluid will contain the desired concentration.

ACCEPTED
WITH COMMENTS
EPA Letter Dated:
007-1 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No 707-299

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<u>lb. of product per 1000 lb. fluid</u>	<u>kg of product per 453 kg fluid</u>	<u>ppm of product</u>	<u>ppm active ingredient</u>
0.265 lb.	120 g	265 ppm	25 ppm
1.575 lb.	715 g	1575 ppm	150 ppm

POLYMER LATEX PRESERVATION

Kordek MLX is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices.

ELECTRONIC CHEMICALS PRESERVATION

Kordek MLX is recommended for the control of bacteria and fungi in electronic chemicals.

For the above applications add 1.05 - 2.63 lbs of Kordek MLX (476gm - 1.2kg) to each 1000 lbs (453kg) of fluid to provide 1052 - 2630 ppm product(100-250ppm active isothiazolones).

ADHESIVE AND TACKIFIER PRESERVATION

Kordek MLX is recommended as an in-container preservative for the control of bacteria and fungi in water-soluble and water-dispersed adhesives and tackifiers.

<u>lb of product per 1000lb. fluid</u>	<u>kg of product per 453 kg fluid</u>	<u>ppm of product</u>	<u>ppm active ingredient</u>
0.79 lb	0.36 kg	790 ppm	75 ppm
1.575 lb	0.715 kg	1575 ppm	150 ppm

FOOD CONTACT

As an antimicrobial agent for adhesives and components of adhesives at a level **not to exceed 150 ppm**.
 As an antimicrobial agent for polymer latex emulsions in paper coatings at a level **not to exceed 250 ppm** active ingredient.
 As an antimicrobial agent for finished paper and paperboard coating formulations and for additives used in the manufacture of paper and paperboard including latex emulsion, fillers, binders, pigment slurries, and sizing solutions at a level **not to exceed 150 ppm** active ingredient in the individual additives and **not to exceed 150 ppm** in the finished coating formulation.

INDUSTRIAL WATER TREATMENT SYSTEMS

Kordek MLX microbicide is recommended for the control of bacteria, algae, and fungi, in **industrial process water, industrial recirculating water cooling towers, recirculating cooling water systems, fire protection 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, influent water filtration systems and conveyor lubricants.**

Dose Kordek MLX microbicide at 2.2 - 13.2 pound (33 - 198 fluid ounces) per 1000 gallon of water in the system to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun. Dosing may be by slug or continuous metered addition. Add Kordek MLX microbicide at some point in the system to insure uniform mixing.

OIL FIELD INJECTION WATERS

Kordek MLX microbicide is recommended 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.

Dose Kordek MLX microbicide at 2.2 - 13.2 pound (33 - 198 fluid ounces) per 1000 gallon of water in the system to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun. Dosing may be by slug or continuous metered addition. Add Kordek MLX microbicide at some point in the system to insure uniform mixing.

AIR WASHER SYSTEMS

Kordek MLX microbicide is recommended as a tankside additive for the control of bacteria, fungi, and algae in industrial air washer systems. Dose Kordek MLX microbicide at 2.2 - 13.2 pound (33 - 198 fluid ounces) per 1000 gallon of water in the system to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun. Dosing may be by slug or continuous metered addition. Add Kordek MLX microbicide air to the ai washer sump or chill water sump to insure uniform mixing. Dosing frequency will depend upon the severity of conditions, system dynamics, and degree of control required.

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

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OCT - 1 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 707-099

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RECIRCULATING ELECTRODEPOSITION SYSTEMS

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

Dose Kordek MLX microbicide at 2.2 - 13.2 pound (2.6 - 15.5 gallon) per 10000 gallon of water in the system to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun. Dosing may be by slug or continuous metered addition. Kordek MLX microbicide should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to ensure uniform mixing. 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.

NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should at no time exceed 150 ppm (equivalent to 1575 ppm Kordek MLX microbicide or 132 gallon per 10,000 gallon system fluid).

MEMBRANE FILTRATION UNITS AND NON-MEDICAL/NON-POTABLE REVERSE OSMOSIS SYSTEMS

Kordek MLX microbicide is recommended for the control of bacteria and fungi in membrane filtration units and non-medical/non-potable reverse osmosis systems. Use of Kordek MLX microbicide in potable water or dialysis is prohibited. Add 2.2 - 13.2 pound (33 - 198 fluid ounces) per 1000 gallon to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient) into industrial membrane filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of Kordek MLX microbicide with reverse osmosis membranes should be confirmed with membrane manufacturers.

For periodic membrane cleaning, add 2.2 - 13.2 pound (33 - 198 fluid ounces) per 1000 gallon of cleaning solution to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient).

For the control of bacteria and fungi in filtration beds, add 2.2 - 13.2 pound (33 - 198 fluid ounces) per 1000 gallon of system volume to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient) by either continuous or batch feed.

Badly fouled systems should be cleaned before treatment is begun.

INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS

Kordek MLX 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.

Dose Kordek MLX microbicide at 2.2 - 13.2 pound (2.6 - 15.5 gallon) per 10000 gallon of water in the system to achieve 265 - 1575 ppm product (25 - 150 ppm active ingredient). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun. Dosing may be by slug or continuous metered addition. Add Kordek MLX microbicide at some point in the system to insure uniform mixing.

PAPERMILLS

Kordek MLX microbicide is recommended for the control of bacteria, algae and fungi in papermaking systems. Add Kordek MLX microbicide to the headbox, machine chest, beater, wire pit, saveall tank, hydropulper, or fan or broke storage pumps or some other point in the system to insure uniform mixing. Treatment may be by slug or continuous dosing to achieve 265-1575 ppm Kordek MLX microbicide (25-150 ppm active ingredient) in the wet end portion of the system.

Apply 2.2 - 13.2 pound (33 - 198 fluid ounce) of Kordek MLX microbicide per 1000 gallon of water in the system or an equivalent based on dry weight of paper produced. Dosing frequency will depend on mill conditions and the level of microbial fouling. Badly fouled systems should be cleaned before initial treatment.

Kordek MLX Microbicide weighs 8.5 lb/gallon.

**ACCEPTED
with COMMENTS
EPA Letter Dated:**

OCT - 1 2003
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Fungicide, and Rodenticide Act as
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