

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



Office of Pesticide Programs

Quick-Med Technologies, Inc.
160 West Camino Real, #238
Boca Raton, FL 33432

FEB 23 2012

Attention: Micah T. Reynolds

Subject: Stay Fresh Antimicrobial
EPA Registration No. 87358-1
Amendment Dated January 25, 2012

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

Proposed Amendment

- To clarify use rates/use instructions
- to add additional sites
- To update the First Aid statements

General Comment

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,

A handwritten signature in black ink that reads "Marshall Swindell".

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Enclosure

Stay Fresh® Antimicrobial

Antimicrobial Textile Finish

(NOTE TO REVIEWER: [bracketed text is optional] and (parenthetical text is informational).)

[FOR COMMERCIAL AND INDUSTRIAL USE ONLY] **ACCEPTED WITH COMMENTS**

EPA Letter Dated:

FEB 23 2012

ACTIVE INGREDIENT:

HYDROGEN PEROXIDE.....50%

INERT INGREDIENTS.....50%

TOTAL.....100%

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 87358-1

**KEEP OUT OF REACH OF CHILDREN
DANGER**

STRONG OXIDIZING AGENT. CORROSIVE TO SKIN, MUCOUS MEMBRANE AND EYES.

[EPA REG #87358-1]

[EPA EST #]

SEE [BACK PANEL OR PACKAGE INSERT] FOR ADDITIONAL PRECAUTIONARY STATEMENTS

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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. If person is having difficulty breathing, give oxygen. Call a poison control center or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

MANUFACTURED AND DISTRIBUTED BY: (Information to be completed)

[Manufacturer Name]

[Manufacturer Address]

[Manufacturer Phone Number]

IN CASE OF EMERGENCY, CALL [Emergency Contact #]

NET CONTENTS: Hydrogen peroxide, aqueous solution

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Stay Fresh Antimicrobial has excellent durability. It imparts durable antimicrobial activity to the surface of a wide variety of substrates. *Stay Fresh* Antimicrobial suppresses the growth of algae, mold, mildew, fungi and bacteria which cause unpleasant odors, discoloration, staining, deterioration and corrosion.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 87358-1

DIRECTIONS FOR USE:

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

This product is registered as an antimicrobial additive. It is designed to be incorporated during and after the textile manufacturing process to impart antimicrobial activity to the manufactured products. No finished product incorporating *Stay Fresh* Antimicrobial may make any public health claims relating to the antimicrobial activity without first obtaining an EPA registration for the finished product which permits such claims. Articles or substances treated with this product will be exempt from FIFRA regulation pursuant to 40 CFR 152.25(a) if the intended use for incorporating this material into a treated article or substance is for the protection of the article or substance itself.

Note: In order to obtain maximum efficacy from this product, the *Stay Fresh* Antimicrobial and *Stay Fresh* Binder components must be mixed thoroughly at least 15 minutes prior to use, dilution, or addition of other ingredients.

[*Stay Fresh* Antimicrobial offers material protection for a wide variety of applications, for which a range of solution concentrations are available. The range of application varies widely by intended use, durability requirement, and substrate material. *Stay Fresh* Antimicrobial is incorporated into the product from 0.2% to 7%, as measured by weight of antimicrobial on weight of article. *Stay Fresh* Antimicrobial is used with *Stay Fresh* Binder. The base binder formulation [JC1079H] is combined at 3.1 parts binder to 1 part active. Quick-Med Technologies, Inc. will provide guidance on proper mixing of binders and active.]

(Note to Reviewer: The Directions for Use section will include either the previous paragraph and/or the following three individual paragraphs.)

[For ultimate durability, a high solution concentration is required: For 100 gallons of *Stay Fresh* Antimicrobial treatment solution, mix 18.3 gallons of *Stay Fresh* Binder with 6 gallons of *Stay Fresh* Antimicrobial. Add 75.7 gallons of water. Homogenize.]

[For standard applications: For 100 gallons of a standard *Stay Fresh* Antimicrobial treatment solution, mix 14 gallons of *Stay Fresh* Binder with 2.25 gallons of *Stay Fresh* Antimicrobial. Add 83.75 gallons of water. Homogenize.]

[For protection of inventory in warehouse storage conditions: For 100 gallons of *Stay Fresh* Antimicrobial treatment solution, mix 0.62 gallons of *Stay Fresh* Binder with 0.2 gallons of *Stay Fresh* Antimicrobial. Add 99.18 gallons of water. Homogenize.]

Surfaces can be treated with the aqueous solution by brushing, combing, padding, soaking, spraying or fogging until adequately wetted. For fabric treatment, material should be saturated with treatment solution. Mechanically expel excess treatment solution from fabric. After applying treatment, the surface should be allowed to dry at temperatures from ambient to a maximum of [160°C (320°F)] to effect complete condensation of active groups and to remove water [and other solvents]. Use proper ventilation when applying this product. Use appropriate personal safety protection, as detailed in the Precautionary Statements section.

Non-food contact uses only:

Interior Furnishings

- Mattress cover pads & filling
- Pillow covers
- Sheets
- Blankets
- Fiberfill for quilts & pillows
- Curtains
- Draperies
- Carpet and carpet underlay
- Rugs
- Upholstery
- Towels
- Cushion pads
- Wall covering textiles
- Door mats
- Hot pads & oven mitts
- Cloth shower curtains
- Foam
- Down and feathers for filling
- Sponges (non-food contact only)

Apparel

- Uniforms
- Athletic supporters
- Formal wear
- Faux fur
- Shoe liners & inserts
- Footwear
- Umbrellas
- Outerwear
- Sportswear
- Sleepwear
- Stockings
- Socks & hosiery
- Caps
- Undergarments
- Inner liners for jackets
- Brim for outerwear & garments
- Aprons

Industrial and Other Household Items

- Artificial leather
- Filters
- Book covers
- Mops
- Ropes
- Cloth for sails
- Bimini tops
- Tents & other outdoor equipment
- Sleeping bags
- Backpacks
- Luggage
- Liners for knee pads (safety & sports equipment)
- Tarps
- Awnings
- Outdoor furniture cushions & covers
- Pet bedding
- Cat litter
- Drain pan liners
- Insulating materials
- Grout
- Adhesives
- Lumber
- Wood pulp
- Wallboard
- Paints & coatings
- Superabsorbent polymers

Medical Devices, Equipment & Supplies

- Adult diapers
- Incontinence pads
- Protective footwear
- Wound dressings

Transportation

- Automotive & truck upholstery
- Carpeting
- Rear decks
- Trunk liners
- Interior liners
- Convertible tops

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Under the Federal Insecticide, Fungicide and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 87358-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe spray, mist or vapors. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

For eyes and face: Use chemical splash-type monogoggles and a full-face shield made of polycarbonate, acetate, polycarbonate/acetate, PTEG or thermoplastic.

Protective clothing: For body protection, wear protective clothing such as an approved splash protective suit made of SBR Rubber, PVC (PVC Outershell with Polyester Substrate), Gore-Tex (Polyester trilaminate w Gore-Tex), or a specialized HAZMAT Splash or Protective Suit (Level A, B or C). For foot protection, wear approved boots made of NBR, PVC, Polyurethane or neoprene. Overboots made of Latex or PVC, as well as firefighter boots or specialized HAZMAT boots are also permitted. **DO NOT** wear any form of boot or overboots made of nylon or nylon blends. **DO NOT** use cotton, wool or leather, as these materials react rapidly with higher concentrations of hydrogen peroxide. Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

Gloves: For hand protection, wear approved gloves made of nitrile, PVC or neoprene. **DO NOT** use cotton, wool or leather as these materials react rapidly with higher concentrations of hydrogen peroxide. Thoroughly rinse the outside of the gloves with water prior to removal. Inspect regularly for leaks.

Respirator Recommendation: Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Hydrogen peroxide

Exposure Limit	Value	ACCEPTED with COMMENTS EPA Letter Dated:
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ACGIH TWA	1 ppm or 1.4 mg/m ³	7/13
OSHA TWA PEL	1 ppm or 1.4 mg/m ³	Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 87358-1

PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. Corrosive. Contact with combustibles may cause fire. Contamination may cause rapid decomposition, generation of large quantities of oxygen and heat.

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 public 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 EPA Regional Office.

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STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

STORAGE: Product should be stored in original container and should be kept cool and vented to avoid any explosion hazard. Avoid all contaminants, especially dirt, caustic, reducing agents and metals. Contamination and impurities will reduce shelf life and can induce decomposition.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide mixtures or rinsate is a violation of Federal Law. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative of the nearest EPA Regional Office for guidance.

(Note to reviewer: the following container disposal text to be used for >5 gallon containers.)

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over on its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available, or reconditioning, or puncture and dispose of in sanitary landfill or by other procedures approved by state and local authorities.

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[NOTICE: Quick-Med Technologies, Inc. warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in the labeling when used in accordance with directions under normal conditions of use; but the warranty of fitness for a particular purpose does not extend to the use of this product contrary to written instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.]

[QUICK-MED TECHNOLOGIES, INC. SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.]