

64-881-1

9/8/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460



Office of Pesticide Programs

Harvey Steinberg,
AEGIS Environmental
Management, Inc.,
2205 Ridgewood Drive,
Midland, MI. 48642-5884

SEP -8 2010

Product Name: AEM 5700 Antimicrobial
EPA Reg. No.: 64881-1
Notification Date: August 6, 2010
EPA Receipt Date: August 9, 2010
Submission: 880400

Dear Mr. Steinberg,

This letter acknowledges receipt of your notification submitted under the provision of the Federal Insecticide, Fungicide and Rodenticide Act. (FIFRA) section 3(c)9 and PR Notice 98-10.

Proposed Notification:

- Add additional indoor, nonfood site

General Comments

Based on a review of the submitted materials, your notification to add on the label, "File folders and binder covers", for your product, "AEM 5700 Antimicrobial", EPA Reg. # 64881-1, as listed is acceptable. A copy has been placed in our records for future reference.

Should you have any questions or comments concerning this letter, please contact Velma Noble, PM team 31 at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely,

Velma Noble,
Product Manager, Team 31
Regulatory Management Branch
Antimicrobials Division (7510P)

CONCURRENCES

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

Please read instructions on reverse before completing form.

Form Approved

OMB No. 2070-0060

Print Form



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: 64881-1
2. EPA Product Manager: Velma Noble
3. Proposed Classification: [X] None [] Restricted
4. Company/Product (Name): AEM 5700 Antimicrobial
5. Name and Address of Applicant: AEGIS Environmental Management, Inc.
6. Expedited Review: [] EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of adding additional indoor, nonfood site per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product.

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging. 2. Type of Container: Metal, Plastic, Glass, Paper, Other. 3. Location of Net Contents Information: Label, Container. 4. Size(s) Retail Container. 5. Location of Label Directions: On Label, On Labeling accompanying product. 6. Manner in Which Label is Affixed to Product: Lithograph, Paper glued, Stenciled, Other.

Section - IV

1. Contact Point: Name: Harvey L. Steinberg, Title: Regulatory Counsel, Telephone No.: 989-832-8180. Certification: I certify that the statements I have made on this form... 2. Signature: [Handwritten Signature], 3. Title: Regulatory Counsel, 4. Typed Name: Harvey L. Steinberg, 5. Date: Aug 6, 2010, 6. Date Application Received: (Stamped)

Master Label

AEM 5700 Antimicrobial

A SILANE QUATERNARY AMMONIUM SALT

EPA Reg. No. 64881-1

EPA Est. 34292-MI-01

ACTIVE INGREDIENT: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	42%
INERT INGREDIENTS	58%
TOTAL	100%

CONTAINS 50% METHANOL
KEEP OUT OF REACH OF CHILDREN
DANGER! ☠ POISON

If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible • Call a Poison Control Center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing. • Call a Poison Control Center or doctor for treatment advice.
If in skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a Poison Control Center or doctor immediately for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • 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 a Poison Control Center or doctor. • Do not give anything by mouth to an unconscious person.

PRODUCT FEATURES AND BENEFITS

- AEM 5700 Antimicrobial imparts durable biostatic activity to the surface of a wide variety of substrates.
- AEM 5700 Antimicrobial is effective against mold, mildew and algae as a static agent.
- Increased efficiency – through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of AEM 5700 Antimicrobial.
- Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.

LOT NO.

NET CONTENTS



AEGIS ENVIRONMENTS

2205 RIDGEWOOD DRIVE, MIDLAND, MICHIGAN 48642 U.S.A.

1-989-832-8180

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Master Label

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

DANGER! CORROSIVE. CONTAINS 50% METHANOL. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN IRRITATION. MAY BE FATAL IF INHALED. Methanol may cause blindness. May be harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, rubber gloves, and protective clothing. Do not breathe vapor. Wear a NIOSH approved respirator with any N, R, P, or HE filter. Appropriate measures should be taken to prevent the accumulation of hazardous concentrations of methanol vapors in the work area. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse.

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 local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Every effort should be made to contain accidental spills of concentrate to the immediate area. This may be accomplished by the use of sandbags or barrier material to confine the spill to facilitate cleanup and disposal. Contaminated sand or barrier material may then be disposed of by burial in an approved landfill. Many spills may be cleaned up with rags or other absorbent materials by wiping, soaking and/or mopping and allowing the liquid to absorb onto the material. The absorbent material may then be disposed of by incineration or landfill. Floor drains in areas of material use should be protected with absorbent material or barrier material to contain accidental spills.

Inactivation of solutions containing AEM 5700 Antimicrobial may be accomplished by addition of an anionic surfactant, or detergent in quantity equivalent to that of AEM 5700 Antimicrobial in solution.

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame

DIRECTIONS FOR USE:

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

FOR INDUSTRIAL USE ONLY. This product is registered for formulation into Antimicrobial Products or as a microbiostatic agent for material preservation.

- Antimicrobial product formulations containing AEM 5700 require approval by the US EPA for antimicrobial claims made. Formulators are responsible for satisfying registration requirements for their formulated products.
- For use as a microbiostatic agent for material preservation, neither this product nor the articles treated with this product may state or imply any public health 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.

APPROVED USES: AEM 5700 Antimicrobial may be applied to or incorporated into manufactured products listed below for use in industrial, institutional, commercial or residential locations for non-food contact uses

Plastics, fiberglass, metals, glass, wood, ceramics, stone, natural materials, composites: including air filters for furnaces, air conditioners, air purification devices, automobiles, and recirculating air handling systems; aquarium filters; automotive and vehicular parts; roofing materials (tiles, shakes, shingles, granules, stone, membranes, felt, underlayment and synthetic overcoats); building materials and components (including siding, wallboard, wood and wood composites, insulation and non-food contact cabinetry); ceiling tiles; concrete products; paints and coatings; mastics and sealants; cementitious materials (including caulk, grout and cement and grout premixes); non-food contact conveyor and humidifier belts; non-food contact countertops; fiberglass ductboard for air handling systems; floor covering; flooring; general

purpose (non-food contact) containers; furniture; bathroom and non-food contact kitchen hardware; mats; plumbing supplies and fixtures; sheet and formed glass; sponges and mops; vacuum cleaner bags and filters; foam for packaging and cushioning in non-food contact applications.

Fibers, fabrics (natural and synthetic, woven and non-woven), leather and household materials (natural and synthetic): including buffer pads (abrasive and polishing); mattress cover pads, filling and ticking; pillow covers; sheets; blankets; bedspreads; fiberfill for upholstery, recreational gear, quilts and pillows; curtains; draperies; carpet and carpet underlay; rugs; upholstery; towels; shower curtains; toilet tank and seat covers; wall covering fabrics and wallpaper (including vinyl) for non-food contact surfaces; umbrellas; fire hose fabric; non-woven disposable diapers; wiping cloths; pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties); apparel, including outerwear, sportswear, sleepwear, socks, hosiery, undergarments, gloves and uniforms; footwear (boots, shoes and components); sports equipment and athletic gear; cloth for sails, ropes, tents and other outdoor equipment; sand bags; tarps; awnings; ~~file folders and binder covers~~; book covers; pictures.

Miscellaneous Manufactured Products: disposable foam cushions for Lapidus Airfloat Systems; foam used as a growth medium for non-food crops and plants.

AEM 5700 Antimicrobial provides residual self-sanitizing activity against athlete's foot fungus (Trichophyton mentagrophytes) on treated socks. Durable for up to 10 repeated washings; prevents 99.9% of the growth of athlete's foot fungus on the sock.

HOW TO USE:

MSDS INFORMATION: BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET CAN BE OBTAINED BY WRITING TO AEGIS ENVIRONMENTS OR BY CALLING (989) 832-8180. A MATERIAL SAFETY DATA SHEET FOR A TYPICAL USE DILUTION AQUEOUS SOLUTION IS ALSO AVAILABLE.

Wear goggles or face shield, protective clothing, rubber gloves and respirator when handling the concentrated material. Use with proper ventilation. Undiluted AEM 5700 Antimicrobial contains 50 percent methanol. Avoid breathing vapors. Keep away from heat and open flame. Methanol is released during mixing, application and drying. If desired, methanol removal may be accelerated

Master Label

by heating dilute solution before treatment of substrate. Appropriate measures should be taken to prevent the accumulation of hazardous concentrations of methanol vapors in the work area.

AEM 5700 Antimicrobial can be applied to organic and inorganic surfaces as a dilute aqueous solution to give 0.1 to 1.0 percent by weight of active ingredients. Aqueous solutions can be prepared by simply adding the antimicrobial agent to water with stirring. NOTICE: Poor agitation when adding this silane to water can result in locally high concentrations, which may form gel particles. Surfaces can be treated with the aqueous solution by brushing, dipping, padding, soaking, spraying or fogging until adequately wet, or applying by foaming techniques. 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 curing of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Curing of polymer may be accelerated or enhanced with heat or catalysis. For each application, determine optimum application and drying conditions, such as time and temperature before use. If desired, reapply AEM 5700 Antimicrobial if odor, staining and discoloration due to bacteria, mold or mildew occur.

Incorporate AEM 5700 Antimicrobial directly into formulations used to make end-use products, or dilute with water or with organic solvents such as alcohols, ketones, esters, hydrocarbons and chlorinated hydrocarbons and then apply it to the organic and inorganic surfaces to give 0.1 to 1.0 percent by weight of active ingredient.

STORAGE AND DISPOSAL:

Do not contaminate water, food, or feed by storage and disposal.

1 lb. Packages:

Storage and Disposal

Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Moisture sensitive. Reclose tightly after each use. When stored in original, unopened container at or below 25°C, AEM 5700 Antimicrobial has a shelf life of 12 months from date of shipment. Do not reuse container. Discard in trash.

Pails and Drums:

STORAGE: Store in original, tightly closed container in an area inaccessible to children and away from food or feed. Moisture sensitive. Keep tightly closed until ready to use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), AEM 5700 Antimicrobial has a minimum shelf life of 12 months from date of shipment.

PESTICIDE DISPOSAL: Pesticide is acutely hazardous. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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 HANDLING: NONREFILLABLE CONTAINER. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Triple rinse container promptly after emptying.

For pails: 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 a 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.

For drums: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 onto 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.

NOTICE: AEGIS 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 this warranty of fitness for a particular purpose does not extend to the use of this product contrary to written instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

AEGIS ENVIRONMENTS SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.