

NOV 19 2003

Mr. Harvey Steinberg
AEGIS Environmental Management Inc.
3106 Swede Avenue
Midland, MI 48648-3483

Subject: AegisAntimicrobial
EPA Registration No. 64881-3
Amendment Date: August 20, 2003
EPA Receipt Date: August 21, 2003

Dear Mr. Steinberg,

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable with the following conditions:

- Update First Aid Statements per PR Notice 2001-1

Conditions

Revise the label as follows:

1. Based on the "Precautionary Statements," this product contains 50% methanol. Revise the phrase, "contains over 49% methanol," under the ingredient's statement to be consistent with the amount of methanol cited in the "Precautionary Statements."
2. Make the following "Precautionary Statement" revisions:
 - a) Delete "Concentrate" from the statement "Concentrate causes irreversible eye damage and skin irritation." Precautionary labeling is based on the acute toxicity data submitted on the chemical in the containers that are sold. Based on the submitted data, this product is toxicity category I for primary eye irritation. If you feel this product's toxicity is reduced in use dilution, you may submit use dilution data as prescribed in the Label Manual 3rd edition, chapter 7 for use dilution precautionary labeling.
 - b) This product is categorized as toxicity II for acute inhalation. The statement, "may be fatal if inhaled, must appear after "skin irritation." The label must be specific in stating how "appropriate measures must be taken" by specifying what type of respirator must be utilized when handling this product. Based on previous discussions, you stated that the

"Dust mist filtering respirator" as suggested in the Agency letter dated May 22, 2003 was not appropriate for this type of product. In the absence of an alternative, you must state "Wear a NIOSH approved respirator with any N, R, P, or HE filter."

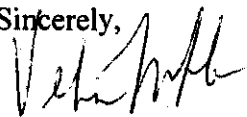
If this is not in agreement with the practices at your facilities, submit a notification adding the appropriate respirator information.

- c.) Revise the "wash thoroughly with soap and water after handling" statement to include the phrase, "*..and before eating, drinking, or using tobacco.*"
- 2. Delete the statement, "AEGIS Antimicrobial can also be used to impart biostatic (bacteriostatic, fungistatic, algistatic) activity to substrates for the following applications" along with the box below it. You must submit a separate amendment to add the use sites from AEM 5700 label, 64881-1. Please note: many of the use sites listed for AEM 5700 are not appropriate for use by homeowners or commercial applicators.
- 3. On page 3: revise the first statement, "wear goggles or faceshield and rubber gloves when handling the concentrate" to state "*wear goggles or faceshield, protective clothing, rubber gloves, and respirator.*" This text must agree with the "Precautionary Statements" on the front panel. As stated earlier, if you want alternative precautionary labeling based on the use dilution, you must submit data.
- 4. According to PR Notice 83-3 and Label Manual 3rd edition, any pesticide that is classified in toxicity category I or II for acute inhalation and/or I for primary eye irritation, the 1st statement under "Pesticide Disposal" must read "*Pesticide is acutely hazardous.*"

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Jacqueline McFarlane at (703) 308-6416.

Sincerely,

 Velma Noble
 Product Manager (31)
 Regulatory Management Branch I
 Antimicrobials Division (7510C)

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AEGIS™ Antimicrobial

A SILANE QUATERNARY AMMONIUM SALT

EPA Reg. No. 64881-3

EPA Est. 34292-MI-01

ACTIVE INGREDIENT: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride 42%

INERT INGREDIENTS: 56%

CONTAINS OVER 49% METHANOL

KEEP OUT OF REACH OF CHILDREN

DANGER! ☠ **POISON**

FIRST AID

Have product container or label with you when calling Poison Control Center or doctor, or going for treatment.

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 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.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

DANGER! CORROSIVE. CONTAINS 50% METHANOL. CONCENTRATE CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN IRRITATION. 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. May be fatal if inhaled. Do not breathe vapor. 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. 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 AEGIS Antimicrobial may be accomplished by addition of ~~ACQUA~~ detergent, or with COMMENTS detergent in quantity equivalent to that of AEGIS Antimicrobial in solution.

in EPA Letter Dated:

NOV 19 2003

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 64881-3

PRODUCT FEATURES AND BENEFITS

AEGIS Antimicrobial imparts durable biostatic activity to the surface of a wide variety of substrates. AEGIS 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 AEGIS Antimicrobial. Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.

DIRECTIONS FOR USE

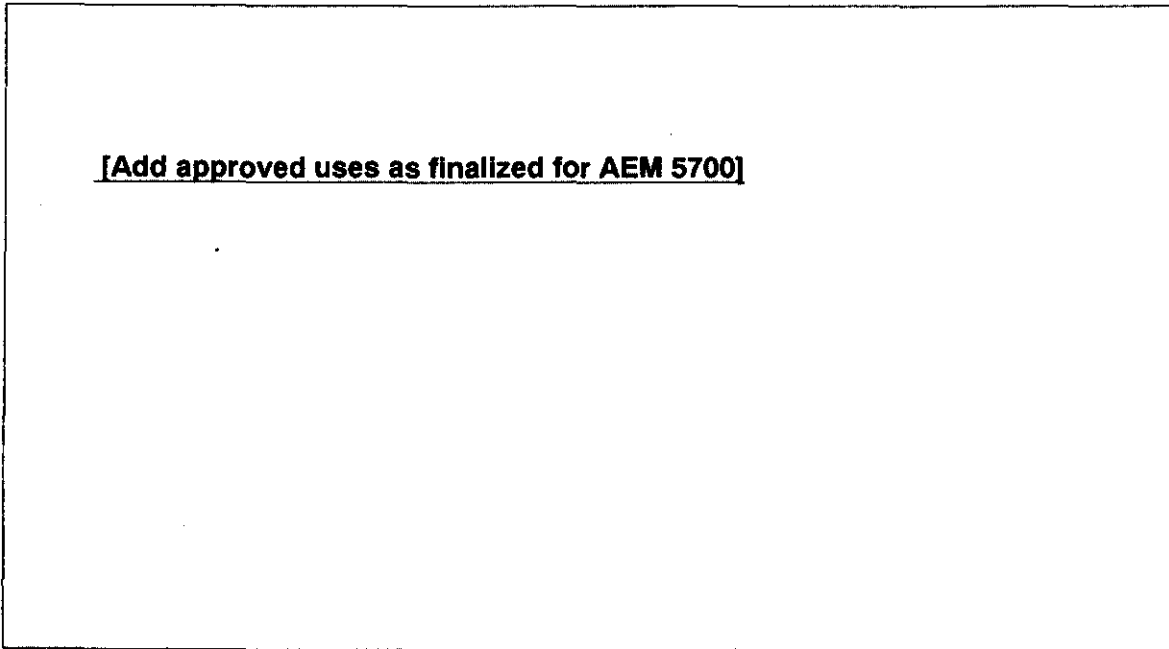
It is a violation of Federal Law to use this product in a manner inconsistent with its label.

FOR COMMERCIAL APPLICATIONS IN HOMES, OFFICES, AUTOMOBILES AND INSTITUTIONS AND FOR INDUSTRIAL USE ONLY. This product is registered as a microbiostatic agent for material preservation only; 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: AEGIS Antimicrobial is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AEGIS Antimicrobial can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity:

- Carpet, Draperies and Upholstery
- Interior Non-Food Contact Hard Surfaces Including: Floors, Walls, Ceilings, Ceramic Tile, Concrete, Chrome, Stainless Steel, Fiberglass, Vinyl, Porcelain, Paper Wall Covering, Wood and Glass Fixtures, Marble, Aluminum, Book Covers, Pictures and Furniture

AEGIS Antimicrobial can also be used to impart biostatic (bacteriostatic/fungistatic/algae static) activity to substrates for the following applications:



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 and rubber gloves when handling the concentrated material. Use with proper ventilation. Undiluted AEGIS 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 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. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

AEGIS 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 (suggested starting level is 2.5 ounces of AEGIS Antimicrobial to one gallon of water). 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 condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Open windows and use a fan or other active means of ventilation to remove any methanol vapors from the room.

For Pump Spray Application: Dilute 2.5 ounces of AEGIS Antimicrobial per gallon of water. Using pump sprayer, spray entire area 4-6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area prior to application. When treating coarser substrates, more AEGIS Antimicrobial may be required due to absorption.

For Spray Application: For commercial application equipment, dilute 2.5 ounces of AEGIS Antimicrobial per gallon of water; mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. When treating coarser substrates, more AEGIS Antimicrobial may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use.

For Dipping/Soaking Application: Use appropriate sized washbasin or tub for dipping/soaking the item you are treating. Use enough AEGIS Antimicrobial solution to completely submerge item. Dilute 2.5 ounces of AEGIS Antimicrobial per gallon of water; mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking. The substrate can be dried at room temperatures or at temperatures to a maximum of 160° C (320° F).

For each application, determine optimum application and drying conditions, such as time and temperature before use. If desired, reapply AEGIS Antimicrobial if odor, staining and discoloration due to bacteria, mold or mildew occur.

STORAGE AND DISPOSAL

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

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), AEGIS Antimicrobial has a minimum shelf life of 12 months from date of shipment.

PESTICIDE DISPOSAL: 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 DISPOSAL: Do not reuse containers. Do not cut or weld containers. Triple rinse (or equivalent) empty containers. 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. This container will have vapor and/or product residues when emptied. All hazard precautions on label must be observed when handling emptied container.



Sold by:

AEGIS ENVIRONMENTAL MANAGEMENT, INC.

3106 SWEDE AVENUE, MIDLAND, MICHIGAN 48642 U.S.A.

1-989-832-8180

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MADE IN U.S.A.

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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 ENVIRONMENTAL MANAGEMENT, INC. SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.



**METHANOL SOLUTION
UN1230**

SHIPPING LIMITATIONS
DOT Classification: Flammable.