

PM 31

64881-5

2-9-99

1047

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

FEB - 9 1999

AEGIS Environmental Management, Inc.  
3106 Swede Avenue  
Midland, OH 48642-3843

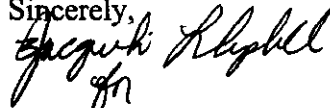
Subject: Dow Corning 5772 Antimicrobial Agent MUP  
EPA Registration No. 64881-5  
Notification Per PR Notice 98-10  
Your Notification Dated: 1/22/99

Attention: Mr. Hal Locker,  
President

This letter acknowledges receipt of your notification to change the primary brand name to AEM 5772 Antimicrobial MUP, submitted under the provisions of FIFRA sec. 3(c)(9). Based on a review of the submitted materials, the notification is acceptable and apart of the records for this file.

If you have any questions regarding this letter, please contact Jacqueline Campbell at (703) 308-6416.

Sincerely,



Velma Noble

Product Manager 31

Regulatory Management Branch I

Antimicrobials Divisions (7510C)

CONCURRENCES

SYMBOL	7510C						
SURNAME	Campbell						
DATE	2/9/99						

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

OFFICIAL FILE COPY



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 64881-5	2. EPA Product Manager Velma Noble	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) AEM 5772 Antimicrobial MUP	PM # 31	
5. Name and Address of Applicant (Include ZIP Code) AEGIS Environmental Management, Inc. 3106 Swede Avenue Midland, MI 48642-3843  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

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

**Section - III**

1. Material This Product Will Be Packaged In:					2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Label accompanying product		
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____			

**Section - IV**

1. Contact Person (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Hal A. Locker	Title President	Telephone No. (Include Area Code) 517-832-8180
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President	
5. Typed Name Hal A. Locker	5. Date January 22, 1999	

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ATTACHMENT TO NOTIFICATION  
PRODUCT 64881- 5

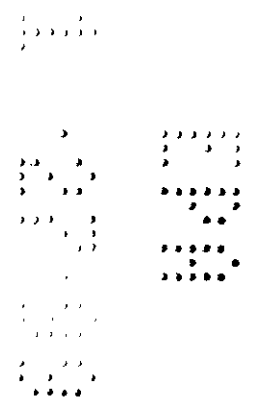
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
401 M Street S.W.  
Washington, D.C. 20470-0001

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 of the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - II  
Explanation:

Change of Primary Brand Name

*W.C. Beck*  
1-22-99



4047

# Specimen Label

# AEM 5772

# Antimicrobial MUP

## A SILANE QUATERNARY AMMONIUM SALT

EPA Reg. No. 64881-5  
EPA Est. 34292-MI-01

ACTIVE INGREDIENT: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride ..... 72%  
INERT INGREDIENTS: ..... 28%

CONTAINS OVER 12% METHANOL

**KEEP OUT OF REACH OF CHILDREN**

**DANGER!**  **POISON**   
**CAUSES EYE DAMAGE**

• **METHANOL MAY CAUSE  
BLINDNESS • HARMFUL OR FATAL  
IF SWALLOWED • VAPOR HARM-  
FUL • AVOID BREATHING SPRAY  
MIST OR VAPORS • AVOID CON-  
TACT WITH SKIN • FLAMMABLE**

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink large quantity of water. Have patient lie down and keep warm. Cover eyes to exclude light, call a physician and/or poison control center. **IF INHALED:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **IF ON SKIN:** Flush with copious amounts of water for at least 15 minutes. **IF IN EYES:** Flush with copious amounts of water for at least 15 minutes and get immediate medical attention.

### PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS (& DOMESTIC ANIMALS)

**DANGER! CORROSIVE. CAUSES EYE DAMAGE AND SKIN IRRITATION.**

Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Use with adequate ventilation. Vapor harmful. Avoid breathing of vapor. Harmful or fatal if swallowed. Avoid contamination of food. Methanol may cause blindness.

### ENVIRONMENTAL HAZARDS:

This pesticide is toxic to aquatic organisms. 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.

### PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame.

**AEM 5772 Antimicrobial MUP**

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**DIRECTIONS FOR USE**

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

FOR FORMULATING DISINFECTANTS; SANITIZERS; AND MICROBIOCIDES FOR USE IN LAUNDRY ADDITIVES, CARPET TREATMENT PRODUCTS, UPHOLSTERY AND DRAPERY TREATMENT PRODUCTS, AND BUILDING CLEANING AND TREATMENT PRODUCTS. These are uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and uses for experimental purposes that are in compliance with USEPA requirements.

AEM 5772 Antimicrobial MUP is to be used only as directed in AEGIS' Technical Bulletins

**STORAGE AND DISPOSAL**

**STORAGE:** Moisture sensitive. Keep tightly closed until ready to use. Reclose tightly after each use.

**DISPOSAL:** Do not contaminate water, food or feed by storage or 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.

**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.

**NOTICE:** AEGIS warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in the bulletin 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 bulletin 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.**

**ATTENTION!** This container will have vapor and/or product residues when emptied. All hazard precautions on label must be observed when handling emptied container.



**METHANOL SOLUTION  
UN1230**



**Sold by:**  
**AEGIS ENVIRONMENTAL  
MANAGEMENT, INC.**  
3106 SWEDE AVENUE  
MIDLAND, MICHIGAN 48642  
1-517-832-8180, U.S.A.

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MADE IN U.S.A.

**SPECIMEN LABEL 2329051      DATE CODE 0198**

**2329051 PRINTED IN U.S.A. IN JANUARY 1998 REPLACES SPECIMEN LABEL 2329051 PRINTED IN SEPTEMBER 1995. DISCARD PREVIOUS SPECIMEN LABELS. REVISIONS INCLUDE: PRODUCT NAME CHANGE, REGISTRATION NUMBER, SELLER NAME AND ADDRESS.**

# AEGIS MICROBE SHIELD™ PROGRAM TECHNICAL BULLETIN

## DESCRIPTION

AEM 5772 Antimicrobial MUP is 3-(tri-methoxysilyl) propyldimethylotadecyl ammonium chloride containing 72 percent active ingredient by weight in methanol.

## FEATURES

Good durability — AEM 5772 Antimicrobial MUP imparts durable, broad spectrum antimicrobial activity to the surface of a wide variety of substrates; it is leach-resistant and non-migrating and is not consumed by microorganisms

Broad-spectrum activity — effective against gram(+) and gram(-) bacteria, fungi, algae and yeasts; antimicrobial action is exhibited on contact in the presence of moisture

Increased efficiency — through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of AEM 5772 Antimicrobial MUP

## BENEFITS

The following benefits are derived when a formulation containing the active ingredient is applied to a surface:

Provides hygienic freshness and combats deterioration caused by fungi and bacteria

Provides a durable, residual, antimicrobial treatment that is not destroyed by repeated cleaning

Resists development of bacterial and fungal odors

Retrains freshness by resisting the growth of odor-causing bacteria and mildew (fungus)

Provides a chemical treatment that enables fabrics to resist odors

Provides a unique chemical treatment that resists mildew and bacteria growth and imparts odor resistance

## AEM 5772 ANTIMICROBIAL MUP FOR MANUFACTURING USE ONLY

U.S. Environmental Protection	
Agency Registration Number.....	64881-5 (EPA Est. 34292-MI-01)
Type.....	Silane quaternary ammonium salt
Physical Form.....	Low-viscosity liquid
Special Properties.....	Surface bondability
Primary Uses.....	As an active ingredient for formulating disinfectants
.....	sanitizers and microbicides for use in laundry additives
.....	carpet treatment products, upholstery and drapery treatment
.....	products, and building cleaning and treatment products to
.....	give a surface-durable antimicrobial treatment effective
.....	against a wide variety of bacteria, fungi, algae and yeasts

## APPROVED USES

AEM 5772 Antimicrobial MUP is approved for use in formulating disinfectants, sanitizers and microbicides for use in laundry additives, carpet treatment products, upholstery and drapery treatment products, and building cleaning and treatment products.

## HOW TO USE

AEM 5772 Antimicrobial MUP can be mixed with water, alcohols, ketones, esters, hydrocarbons and chlorinated hydrocarbons to yield formulations containing the desired level of active ingredient.

NOTICE: Poor agitation when adding this silane to water can result in locally high concentrations, which may form gel particles.

The formulations can be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

After applying the antimicrobial agent, the substrate can then be dried 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. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use.

## EPA REGISTRATION REQUIREMENTS

The applications for which this product are used require approval by the Environmental Protection Agency on an end-use basis in regard to claims made thereof. Formulators are responsible for satisfying registration requirements for their products.

## STORAGE, HANDLING AND PRECAUTIONARY INFORMATION

This product is "flammable" and "poisonous." Keep away from heat and open flame.

## Storage and Shelf Life

When stored in original, unopened containers at or below 25 C (77F), AEM 5772 Antimicrobial MUP has a minimum shelf life of 12 months from date of shipment. Since this material is moisture-sensitive, keep containers tightly closed after each use.

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**Handling (Danger)**

Wear goggles or face shield and rubber gloves when handling the concentrated material.

AEM 5772 Antimicrobial MUP, if ingested in amounts incidental to industrial handling, should pose no significant adverse health hazard. Direct contact of the undiluted material with eyes may cause serious injury or blindness. Particular care must be taken to prevent eye contact. In case of contact with eyes, immediately flush eyes with large amounts of water for at least 15 minutes and get prompt medical attention.

Single, short-term skin exposure to concentrate may cause slight irritation. Contact over several days may cause blistering and a superficial burn. Precautions should be taken to avoid prolonged or repeated skin contact.

Undiluted AEM 5772 Antimicrobial MUP contains 12 percent methanol. Keep away from heat and open flame. Appropriate measures should be taken to prevent the accumulation of hazardous concentrations of methanol vapors in the work area. Avoid breathing vapors.

**Neutralization and Environmental Protection**

AEM 5772 Antimicrobial MUP is toxic to aquatic organisms. This antimicrobial agent, by standard BOD (biological oxygen demand) and TOD (total oxygen demand) determination,

does not appear to be biodegradable. Potential harm to the environment is minimized, however, because of the minimal amount of chemical applied and its durable coupling to surfaces.

Inactivation of solutions containing AEM 5772 Antimicrobial MUP may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of AEM 5772 Antimicrobial MUP in solution.

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.

**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 (517) 832-8180. A MATERIAL SAFETY DATA SHEET FOR A TYPICAL USE DILUTION AQUEOUS SOLUTION IS ALSO AVAILABLE.

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**Shipping Limitations**

DOT Classification: Flammable.

**Packaging**

AEM 5772 Antimicrobial MUP is supplied in 35-, and 400-lb (15.9- and 181.4-kg) containers, net weight.

**IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION**

ÆGIS Environmental Management, Inc. warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this bulletin 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 bulletin instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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

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