



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

42182-11

Date of Issuance:

8/16/18

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Microban Microguard RTU

Name and Address of Registrant (include ZIP Code):

Tony Herber  
Agent for,  
Microban Products Company  
11400 Vanstory Drive  
Huntersville, NC 28078

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Eric Miederhoff, Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Date:

8/16/18

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. GDCI-107403-1627

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 42182-11.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 05/04/2018

If you have any questions, please contact Tara Flint via email at [flint.tara@epa.gov](mailto:flint.tara@epa.gov) or Eric Miederhoff at [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov).

Enclosure

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

# Microban Microguard RTU

EPA Reg. No. 42182-RE

EPA Est. No. {to be inserted}

ACTIVE INGREDIENT: 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride	...3.6%
INERT INGREDIENTS	.....96.4%
TOTAL	.....100.0%

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

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

<b>If in eyes:</b>	- 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. For additional information in case of emergency call 1-800-535-5053.
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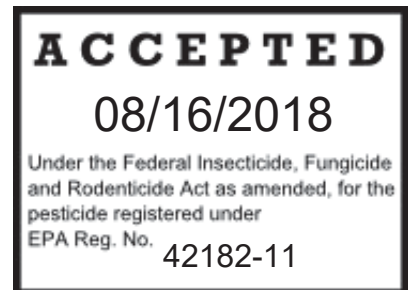
### PRODUCT FEATURES AND BENEFITS

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

LOT NO. {to be inserted}

NET CONTENTS {to be inserted}

[Sold][Distributed][Made][for][by]:  
**MICROBAN PRODUCTS COMPANY**  
 11400 Vanstory Drive, Huntersville, NC 28078  
 1-704-875-0806



The Microban logo is a registered trademark of Microban Products Company  
 MADE IN U.S.A.

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## **PRECAUTIONARY STATEMENTS**

### **HAZARD TO HUMANS AND DOMESTIC ANIMALS.**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### **ENVIRONMENTAL HAZARDS:**

This pesticide is toxic to fish. 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. De-activation may be required during clean up if a spill occurs. De-activation of Microban Microguard RTU can be achieved by the addition of an anionic surfactant or detergent (such as soap, sulfones, or sulfates) in quantity equivalent to that of the active ingredient.

### **DIRECTIONS FOR USE:**

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

## **INDUSTRIAL USE PRODUCTS**

**FOR INDUSTRIAL USE:** This product is registered as a microbiostatic agent for material preservation.

- 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: Microban Microguard RTU 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 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 and concrete products (including wet cast, dry cast, and self-consolidating concrete (SCC) containing Ordinary Portland Cement (OPC), and or/Granulated Ground Blast-furnace Slag (GGBS) and/or silica fume and/or fly ash and which can be precast or formed-in place); dry concrete and grout mixes; paints and coatings; non-food contact countertops; floor covering; flooring; bathroom and non-food contact kitchen hardware; plumbing supplies and fixtures; sheet and formed glass.

### **HOW TO USE:**

**SDS INFORMATION:** BEFORE HANDLING, READ [PRODUCT AND] SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET CAN BE OBTAINED BY WRITING TO MICROBAN PRODUCTS COMPANY OR BY CALLING (704) 875-0806

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

AEM 5772-5 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 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 5772-5 Antimicrobial if odor, staining and discoloration due to bacteria, mold or mildew occur.

For incorporated use as a grout or cement additive and in concrete and concrete products, add Microban Microguard RTU directly to the dry mix during the grout, cement, or concrete preparation. Use 10 - 40 fluid ounces of Microban Microguard RTU per 50 pounds of dry mixture. For concrete applications, use 1 – 5 gallons of AEM5772-5 per cubic yard of concrete. Follow directions for grout or concrete, using Microban Microguard RTU as part of the added water. Addition of Microban Microguard RTU inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae on the surface of the cured grout and concrete.

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## **COMMERCIAL USE PRODUCTS**

**FOR COMMERCIAL APPLICATIONS (IN HOMES, OFFICES, AUTOMOBILES AND INSTITUTIONS):** 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:** Microban Microguard RTU is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. It can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity:

- **Plastics, fiberglass, metals, glass, wood, ceramics, stone, natural materials, composites:** including , roofing materials (tiles, shakes, shingles, granules, stone, membranes, felt, underlayment and synthetic overcoats); building materials and components including siding, wallboard, wood and wood composites and insulation: non-food contact hard surfaces including floors and floor covering, walls, ceilings, ceiling tiles, ceramic tile, non-food contact countertops, concrete and concrete products (including wet cast, dry cast, and self-consolidating concrete (SCC) containing Ordinary Portland Cement (OPC), and/or Granulated Ground Blast-furnace Slag (GGBS) and/or silica fume and/or fly ash and which can be precast or formed-in-place), chrome, stainless steel, fiberglass, vinyl, porcelain, fabric and paper wall covering, wood and glass fixtures, marble, aluminum, and non-food contact cabinetry.

### **HOW TO USE:**

**SDS INFORMATION:** BEFORE HANDLING, READ [PRODUCT AND] 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 MICROBAN PRODUCTS COMPANY OR BY CALLING (704) 875-0806.

Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

AEM 5772-5 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 1 part of AEM 5772-5 Antimicrobial to three parts of water). Aqueous solutions can be prepared by simply adding the antimicrobial to water with stirring. Surfaces can be treated with the aqueous solution by brushing, dipping, padding, soaking, spraying 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. If necessary, reapply AEM 5772-5 Antimicrobial every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

For Commercial Spray Equipment and Pump Spray Application: Dilute 1 part of AEM 5772-5 Antimicrobial to three parts of water. Apply (with pump sprayer, spray 4-6 Inches from the surface) entire area making sure the surface is completely covered, 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 AEM 5772-5 Antimicrobial may be required due to absorption.

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For Dipping/Soaking Application: Use appropriate sized washbasin or tub for dipping/soaking the item you are treating. Use enough AEM 5772-5 Antimicrobial solution to completely submerge item. Dilute 1 part of AEM 5772-5 Antimicrobial to three parts 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<sup>o</sup> C (320<sup>o</sup> F).

For each application, determine optimum application and drying conditions, such as time and temperature, before use. If desired, reapply AEM 5772-5 Antimicrobial if odor, staining and discoloration due to bacteria, mold or mildew occur.

For incorporated use as a grout or cement additive and in concrete and concrete products, add Microban Microguard RTU directly to the dry mix during the grout, cement, or concrete preparation. Use 10 - 40 fluid ounces of Microban Microguard RTU per 50 pounds of dry mixture. For concrete applications, use 1 – 5 gallons of AEM5772-5 per cubic yard of concrete. Follow directions for grout or concrete, using Microban Microguard RTU as part of the added water. Addition of Microban Microguard RTU inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae on the surface of the cured grout and concrete.

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## **CONSUMER USE PRODUCTS**

Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

**FOR BATHROOM AND NON-FOOD CONTACT BUILDING SURFACES** (including tubs and showers, tiles, vanity tops, shower curtains, grout, sinks, washable walls, wall paper, floors, window sills, concrete or stone surfaces and garbage cans).

**Spray:** Always apply only to clean surfaces. Dilute one part of the AEM 5772-5 Antimicrobial to three parts of water and mix or shake well. Apply to surface using a trigger pump sprayer or pressure sprayer. Spray entire surface from 4-6 inches distance until completely covered. Allow to dry thoroughly before use. If spotting occurs, wipe with moist cloth or sponge.

### **GROUT AND CEMENT MIX ADDITIVE:**

For use as a grout or cement additive and in concrete and concrete products (including wet cast, dry cast, and self-consolidating concrete (SCC) containing Ordinary Portland Cement (OPC), and/or Granulated Ground Blast-furnace Slag (GGBS) and/or silica fume and/or fly ash and which can be precast or formed-in-place), add Microban Microguard RTU directly to the dry mix during the grout, cement, or concrete preparation. Use 10 - 40 fluid ounces of Microban Microguard RTU per 50 pounds of dry mixture. For concrete applications, use 1 – 5 gallons of AEM5772-5 per cubic yard of concrete. Follow directions for grout or concrete, using Microban Microguard RTU as part of the added water. Addition of Microban Microguard RTU inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae on the surface of the cured grout and concrete.

### OPTIONAL MARKETING LANGUAGE

Microban Microguard RTU is a fast, easy and affordable solution for treating surfaces against staining and discoloration caused by mold and mildew. It helps in the fight to clean and prevent mold and mildew on treated surfaces inside and outside of your home.

Prevents Mold and Mildew Stains and Odors on treated surfaces

Water-Based & Odor Free

Creates an invisible barrier that inhibits the growth of mold and mildew on treated surfaces

Creates an invisible barrier that inhibits the growth of odor-causing bacteria on treated surfaces

Protects indoors and out!

Spray on installed glazed tiles and wall paper, tubs, shower curtains, shower stalls, sinks, window sills, cabinets, garbage cans, appliances, and vanity tops weekly to replenish barrier.

Great for roofs. Reapply every 3 months, if needed.



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## **STORAGE AND DISPOSAL:**

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

### **For household/residential use packages:**

**Storage and Disposal:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep tightly closed until ready to use. Reclose tightly after each use. Nonrefillable container. Do not reuse or refill this container. Wrap container and put in trash or offer for recycling if available.

### **For industrial and commercial use packages:**

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use and away from food or feed. Keep tightly closed until ready to use. Reclose tightly after each use.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying.

**For containers up to 5 gallons:** 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  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application 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 containers great than 5 gallons:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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 back and forth several times. Turn the container back 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.

Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE:** Microban Products Company 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.

**MICROBAN PRODUCTS COMPANY SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.**