



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

EPA Reg. Number:

85348-2

Date of Issuance:

6/28/19

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BI-OME AM5

Name and Address of Registrant (include ZIP Code):

Mr. John Ellis
Devan International Group NV
Klein Frankrijkstraat 8
9600 Ronse

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.

Signature of Approving Official:

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

Date:

6/28/19

2. You are required to comply with the data requirements described in the DCI or EDSP Order identified below:

- a. 3-(trihydroxysilyl)propyldimethyloctadecyl ammonium chloride GDCI-107401-1635

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order 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. 85348-2.”
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 05/02/2019

If you have any questions, please contact Karen M. Leavy by phone at (703)-308-6237, or via email at Leavy.Karen@epa.gov.

Enclosure

ACCEPTED

06/28/2019

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 85348-2

Master Label

BI-OME AM5

A Silane Quaternary Ammonium Salt

ACTIVE INGREDIENT

3-(trihydroxysilyl)propyldimethyloctadecyl ammonium chloride.....3.3%

INERT INGREDIENTS.....96.7%

TOTAL.....100%

KEEP OUT OF REACH OF CHILDREN

WARNING

FIRST AID

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

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 the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for treatment advice.
IF ON 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.

PRODUCT FEATURES AND BENEFITS

BI-OME AM5 imparts durable biostatic activity to the surface of a wide variety of substrates.

BI-OME AM5 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 BI-OME AM5.

Provides freshness and combats deterioration and discoloration caused by bacteria fungi and algae.

EPA Reg. No. 85348-E

EPA Est. No. 73189-GA-001

Sold by Devan International Group NV

Klein Frankrijkstraat 8

9600 Ronse

Made in the USA

Net Contents _____

Lot No. _____

INDUSTRIAL USE PRODUCTS

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

WARNING Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield) and rubber gloves. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Harmful if inhaled. Avoid breathing vapor or spray mist. 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. Deactivation may be required during clean up if a spill occurs. Deactivation of BI-OME AM5 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.

FOR INDUSTRIAL USE: This product is registered for formulation into antimicrobial products or 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: BI-OME AM5 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, 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, dry concrete, grout mixes, non-food contact conveyor and humidifier belts, or non-food contact countertops, fiberglass duct board 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, 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 apparel; recreational gear quilts and pillows; curtains; draperies; carpet; 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; athletic gear; outdoor equipment such as cloth for sails, ropes, and tents; sand bags; tarps; awnings; book covers; pictures.

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

HOW TO USE:

Wear protective eyewear (goggles or face shield) and rubber gloves when using this product.

BI-OME AM5 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, and 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 BI-OME AM5 if odor, staining, and discoloration due to bacteria, mold, or mildew occur.

Incorporate BI-OME AM5 directly into formulations used to make end use products or dilute with water and then apply it to the organic and inorganic surfaces to give 0.1 to 1.0 percent by weight of active ingredient.

COMMERCIAL USE PRODUCTS

DIRECTIONS FOR USE

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

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. Deactivation may be required during clean up if a spill occurs. Deactivation of BI-OME AM5 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.

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: BI-OME AM5 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 on the following items to protect the items from deterioration, mold and mildew:

- Carpet, draperies and upholstery, furniture, bedding and linens, shoes and apparel, book covers, and pictures
- **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; automotive and vehicular parts; concrete products; 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, chrome, stainless steel, fiberglass, vinyl, porcelain, fabric and paper wall covering, wood and glass marble, aluminum, and non-food contact cabinetry.

HOW TO USE

Wear protective eyewear (goggles or face shield) and rubber gloves when using this product. 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.

BI-OME AM5 can be applied to organic surfaces such as automotive and vehicular parts, roofing materials, building materials and components, concrete products, grout mixes, and plumbing supplies and fixtures; and inorganic surfaces such as filling and ticking pillow covers, towels, sportswear, carpet, wall covering fabrics, socks, hosiery, and undergarments 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 BI-OME AM5 to three parts of water). Aqueous solutions are prepared by simply adding the antimicrobial to water with stirring. Surfaces can be treated with the aqueous solution by brushing, dipping, padding, soaking, or spraying until adequately wet or applying by foaming techniques.

After applying treatment, allow the surface 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 BI-OME AM5 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 BI-OME AM5 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 or heavier-weight substrates, such as carpets, a higher application rate may be required due to absorption. Apply a second spray coating after wiping the first coating with a moist cloth or sponge, then allow to dry.

For Dipping/Soaking Application: Use appropriate sized washbasin or tub for dipping/soaking the item you are treating. Use enough BI-OME AM5 solution to completely submerge item. Dilute 1 part of BI-OME AM5 to 3 parts of water and 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 BI-OME AM5 if odor staining and discoloration due to bacteria, mold, or mildew occur.

CONSUMER USE PRODUCTS

DIRECTIONS FOR USE

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

Wear safety glasses and rubber gloves when using this product. 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.

WASHABLE LINENS, DRAPERIES FABRIC, BEDDING AND APPAREL

Dipping/Soaking: Use a wash tub or machine for soaking the items you are treating. Always treat only clean items and use only fresh rinse water.

Wash Tub: Use washbasin or tub big enough to completely soak the item you are treating. Add 1 ounce of BI-OME AM5 to sufficient water to soak 4 lbs of fabric. 2 ounces of BI-OME AM5 for 8 lbs. Completely submerge items in solution for 3 minutes. Remove items 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 temperature or in a clothes dryer at the appropriate setting for the items.

Washing Machine: Clean items first. Run only rinse cycle. Add 2 ounces of BI-OME AM5 for small load, 3 ounces for medium load, or 4 ounces for large load settings on the machine. Run the full rinse cycle to treat the fabrics then allow to dry overnight or use a dryer under the appropriate heat setting for the fabrics being treated. Test for staining and color fastness of fabrics by treating and drying a small concealed area prior to application.

Spray: Clean items prior to application. Dilute 1 part of BI-OME AM5 to 3 parts of water and mix or shake well. Using trigger pump sprayer or pressure sprayer, spray entire surface area 4-6 inches from the surface making sure the surface is completely covered. Let stand until dry or dry under the appropriate heat setting for the fabrics being treated. If spotting occurs, wipe with a moist cloth or sponge. Test for staining and color fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply every three months or when odor staining and discoloration due to bacteria, mold stains, or mildew stains return.

CARPET AND UPHOLSTERY/FURNITURE

Spray: Always apply only to clean surfaces. Dilute one part of BI-OME AM5 to three parts of water and mix or shake well. Apply to carpet and furniture using a trigger pump sprayer or pressure sprayer. Spray entire surface from 4-6 inches distance until completely covered. The amount needed for treatment will depend on the coarseness and absorbency of the material being treated. Allow to dry thoroughly, a minimum of 12 hours, before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color fastness of fabric by treating and drying a small concealed area prior to application. If necessary reapply every three months or when odor staining and discoloration due to bacteria, mold stains, or mildew stains return.

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 BI-OME AM5 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 BI-OME AM5 directly to the dry mix during the grout, cement, or concrete preparation. Use 10 - 40 fluid ounces of BI-OME AM5 per 50 pounds of dry mixture. For concrete applications, use 1 – 5 gallons of BI-OME AM5 per cubic yard of concrete. Follow directions for grout or concrete, using BI-OME AM5 as part of the added water. Addition of BI-OME AM5 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.

FILTERS AND FILTER MATERIAL (Aquarium filters vacuum cleaner filters and air)

Spray: Always apply only to clean surfaces. When treating filters, remove filter from unit. Dilute one part BI-OME AM5 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.

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage and disposal

For household/residential use packages

Use by _____

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. When stored in original unopened containers at or below 25°C (77°F) BI-OME AM5 must be used by the "Use by" date identified above.

Container Handling: Non-refillable 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:

Small Packages (1 gal or less)

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. When stored in original unopened containers at or below 25°C (77°F) BI-OME AM5 has a minimum shelf life of 12 months from date of shipment.

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: Non-refillable container

Do not reuse or refill this container. Triple rinse container promptly after emptying. 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 1/4 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. Offer for recycling if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Pails, Drums, and Intermediate Bulk Containers (IBC)

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. When stored in original unopened containers at or below 25°C (77°F) BI-OME AM5 has a minimum shelf life of 12 months from date of shipment.

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

CONTAINER HANDLING:

Non-refillable 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 1/4 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 containers greater than 5 gallons

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 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: Devan International Group NV 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 DEVAN INTERNATIONAL GROUP NV SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING THE WARRANTY OF MERCHANTABILITY.

OPTIONAL MARKETING LANGUAGE

BI-OME AM5 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 your home.

For use in Bathrooms

For use on Non-Food Contact Kitchen Surfaces

For use on Linens

For use on Draperies

For use on Fabrics

For use on Apparel

For us on Carpets

For use on Bedding

For use on Upholstery/Furniture

For use on Roofs

For use on Air Filter Materials

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.

Use on clothing, bedding, upholstery, and drapes

Great for roofs. Reapply every 3 months if needed