

87583-2

3/19/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

Kevin Kutcel, Agent for PureShield Inc.  
KRK Consulting LLC  
5807 Churchhill Way  
Medina, OH 44256

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

MAR 19 2014

SUBJECT: Bio-Protect AM 500  
EPA Registration Number: 87583-2  
Application Date: November 18, 2014  
Receipt Date: November 20, 2013

Dear Mr. Kutcel: The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

- To update the Storage and Disposal.
- To add fogging and padding directions.
- To add laundry application.

Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data. A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and it's implementing regulation at 40 CFR 152.3.

**General Comments**

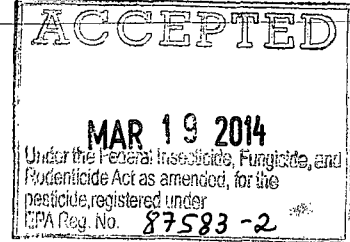
Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308-6233.

Sincerely,

A handwritten signature in black ink, appearing to read "Velma Noble", written over a horizontal line.

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

# BIO-PROTECT 500



**MICROBIOSTATIC AGENT \***  
**A Silicone Quaternary Ammonium Salt**

**Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5.0%**  
**Other Ingredients: ..... 95.0%**  
**TOTAL INGREDIENTS: ..... 100.0%**

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING**

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.  
 Lot No. \_\_\_\_\_

<b>FIRST AID</b>	
<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>	
<p><b>IF INHALED:</b></p> <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>	
<p><b>IF ON SKIN:</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>	
<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>	

\*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.  
 This product does not protect users or others against food-borne or disease-causing bacteria.

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### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

**Commercial and industrial uses:** 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 guPureShield, Inc.nce, 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 BIO-PROTECT AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIO-PROTECT AM500.

**Homeowner use:** This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

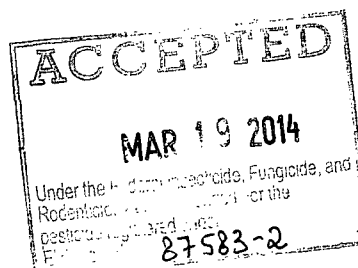
### DIRECTIONS FOR USE

#### Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and 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.

Prepare solution by simply adding BIO-PROTECT AM500 to water or other solvents (for example, alcohol and ketones) and stirring. BIO-PROTECT AM500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
BIO-PROTECT AM500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces



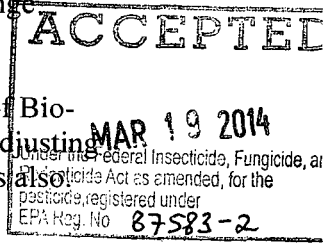
The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying or fogging.

**FOGGING:** This product is for-porous and non porous room surfaces. All surfaces must be cleaned in accordance with label directions prior to fogging. Fogging is a supplement to normal cleaning procedures and practices.

1. Prior to fogging, remove and carefully protect all food products and packaging materials.
2. Ensure room is properly ventilated. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Vacate all personnel from the room during fogging and for a minimum of 2 hours after fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. Ensure there is no strong odor which is characteristic of acetic acid, before allowing personnel return to work area.
3. Fog areas using one quart per 1000 cu. ft. of room area with 0.3% (3.5 fl. oz. per 10 gallons of water) (or equivalent use dilution) solution.
4. Allow surfaces to drain thoroughly and air dry before operations are resumed.

**PADDING:** Fabric should be previously scoured and/or dyed and neutralized. Alkalinity may prohibit BioProtect500 from attaching to fabric. pH of fabric should be less than 5.5 to aid pick up. Determine an accurate wet pick up. It is preferable that fabric be padded wet on dry. However, if wet on wet finishing is necessary, it is imperative that an accurate exchange rate be calculated to effect enough Bio-Protect AM500 to fabric.

Make up solution of Bio-Protect AM500 in head tank or side tank near (The amount of Bio-Protect AM500 will be 4-5% on the weight of the goods). Calculate amount needed adjusting for wet pick up of fabric being padded. If vacuuming is used, make adjustment for this also.



Drop solution to pad and run fabric through pad.

Dry substrates 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. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

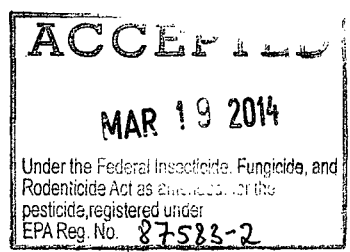
BIO-PROTECT AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIO-PROTECT AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIO-PROTECT AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIO-PROTECT AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIO-PROTECT AM500 per 100 pounds of paint or coating (or 1 pound BIO-PROTECT AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIO-PROTECT AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIO-PROTECT AM500 inhibits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

**Approved commercial and industrial applications**

The active ingredient in BIO-PROTECT AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIO-PROTECT AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Woman's hosiery
- Woman's intimate apparel



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### DIRECTIONS FOR USE

**Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and 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.

**For Pump Spray Application:** Dilute 8 ounces of BIO-PROTECT AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6" 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 color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIO-PROTECT AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIO-PROTECT AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

**For Commercial Spray Application:** For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIO-PROTECT AM500 per gallon of water (2oz. per quart; 1oz. per pint); 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. BIO-PROTECT AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIO-PROTECT AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

**For Dipping/Soaking Application:** Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIO-PROTECT AM500 solution to completely submerge item. Dilute 8 ounces of BIO-PROTECT AM500 per gallon of water (2oz. per quart; 1oz. per pint); 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 temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

**For Laundry Application:** Garments must be clean prior to the application of Bio-Protect AM500 into your washing machine. If dirty, wash them prior to the antimicrobial treatment. The application of Bio-Protect AM500 must be done separately from normal washing. Do not mix with regular detergent.

Pour 4 oz. of Bio-Protect AM500 into final rinse water of the washing cycle. Do not use in conjunction with any other laundry products. For front loaders, pour into dispenser for the final rinse cycle.

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Under the Federal Insecticide, Fungicide and  
Rodenticide Act as amended for all  
pesticide registered under  
EPA Reg. No. 87583-2

A typical mid-sized washing machine is capable of handling 9 lbs. of laundry. As the usage guideline chart below illustrates, a 4 oz. application of Bio-Protect AM500 will deliver long-lasting antimicrobial protection to a full load of laundry. For higher capacity washers or commercial application of Bio-Protect AM500, refer to the usage guidelines chart below.

Laundry in lbs.	Bio-Protect AM500 oz.
9	4
25	12
50	24
100	46
150	68
200	92

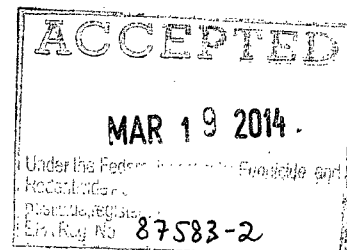
The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply Bio-Protect AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

**Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities**

The active ingredient in BIO-PROTECT AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

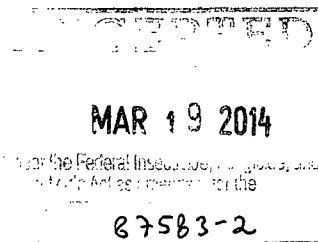
BIO-PROTECT AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking



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- Men's underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticide properties)
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs
- Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel



### **DIRECTIONS FOR USE**

#### **For homeowner applications**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and 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.



**Approved homeowner uses**

The active ingredient in BIO-PROTECT AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIO-PROTECT AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>
<p>Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, towelings, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). BIO-PROTECT AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.</p>	<p>Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p><b>DIP/SOAK:</b> Dilute BIO-PROTECT AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIO-PROTECT AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p> <p><b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. 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 staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIO-PROTECT AM500 every three months or</p>

**ACCEPTED**

**MAR 19 2014**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 87583-2

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			when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>
Air filters and air filter material for: <ul style="list-style-type: none"> <li>• Furnaces, air conditioners</li> <li>• Air purification systems</li> <li>• Automobiles</li> <li>• Recirculating air handling systems</li> <li>• Vacuum cleaner filters</li> <li>• Aquariums</li> </ul>	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	<b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>

**ACCEPTED**

**MAR 19 2014**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 87583-2

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<p>Carpeting</p>	<p>Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p><b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIO-PROTECT AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIO-PROTECT AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIO-PROTECT AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>
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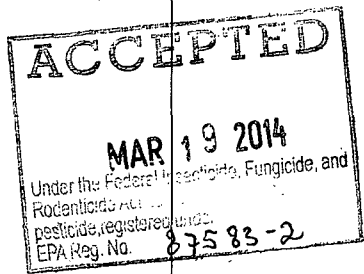
	<p><b>Pest controlled</b></p>	<p><b>Dilution Rate</b></p>	<p><b>Method of Application</b></p>
<p>Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,</p>	<p>Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p><b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" 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 staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary,</p>

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apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint • •	<p><b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. 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 staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p> <p><b>DIP/SOAK:</b> Dilute BIO-PROTECT AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIO-PROTECT AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>
	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>
Roofing materials (such as shingles,	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	<b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Make sure the roof or



<p>roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)</p>	<p>bacteria which cause staining and discoloration, fungi (mold and mildew), and algae</p>	<p>1 oz / pint</p>	<p>wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIO-PROTECT AM500, let stand until dry. BIO-PROTECT AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>	
		<p><b>Pest controlled</b></p>	<p><b>Dilution Rate</b></p>	<p><b>Method of Application</b></p>
<p>Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes</p>	<p>Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p><b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. 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. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>	
		<p><b>Pest controlled</b></p>	<p><b>Dilution Rate</b></p>	<p><b>Method of Application</b></p>
<p>Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass,</p>	<p>Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p><b>SPRAY:</b> Dilute BIO-PROTECT AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. 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. If necessary, reapply BIO-PROTECT AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>	

**ACCEPTED**

**MAR 19 2014**

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. **87583-2**

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formica, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl			
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MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIO-PROTECT AM500 is an antimicrobial agent effective against odor-causing bacteria.

BIO-PROTECT AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

BIO-PROTECT AM500 is an antimicrobial agent effective against fungi (mold and mildew).

BIO-PROTECT AM500 is an antimicrobial agent effective against algae.

BIO-PROTECT AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

BIO-PROTECT AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

BIO-PROTECT AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

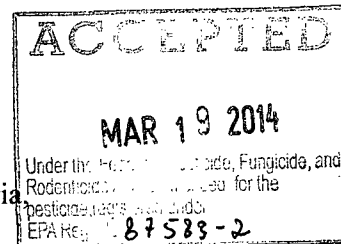
Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.



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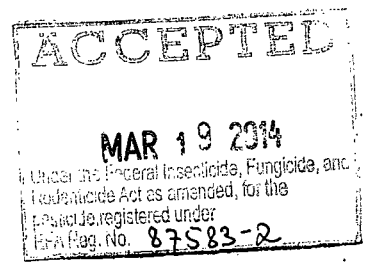
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

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**STORAGE AND DISPOSAL**

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

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]**

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse

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container (or equivalent) promptly after emptying. 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. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Container Handling: (containers intended for nonresidential users, smaller than 5 gallons) 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 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. Dispose of rinsate as a pesticide waste. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

FOR MORE INFORMATION CONCERNING THIS PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS). THE MSDS CAN BE OBTAINED BY WRITING PURESHIELD, INC., INC. AT 1445 JUPITER PARK DRIVE, SUITE 11, JUPITER, FL 33458.

**IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION**

PURESHIELD, INC., 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 the seller, and buyer assumes the risk of any such use.

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

RECEIVED  
MAR 19 2014  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this pesticide registered under EPA Reg. No. 87583-2