

70871-1

7-13-2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

BioShield Technologies, Inc.  
4405 International Boulevard, Suite B109  
Norcross, GA 30093

JUL 13 2000

ATTENTION: James Damico  
Agent for BioShield

SUBJECT: BioShield AM 500  
EPA Registration Number 70871-1  
Your Amendment Dated: May 25, 2000  
EPA Received Date: May 25, 2000

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

A. You have revised your "First Aid" statements as per PR Notice 2000-3. Make the following revision so that these statements will be in compliance with PR Notice 2000-3: add "Take off contaminated clothing." to the beginning of the section titled "IF ON SKIN".

B. You have modified your label to include the phrase "fungi (mold and mildew)". Note that whenever your final printed label includes the term "fungi" is must always be followed by the qualifier "(mold and mildew)".

C. Revise the "Environmental Hazards" to include two separate statements, one for homeowner use and the other for commercial/industrial use of this product. Include the

SYMBOL	following statements for homeowner use: "This pesticide is toxic to fish. Do not apply directly to					
SURNAME	7510C					
DATE	7/12/00					

water. Do not contaminate water by cleaning of equipment or disposal of pesticide.” Then identify the following statement for commercial and industrial uses: “*This pesticide is toxic to fish. Do not discharge effluent containing this product...*” and continue with this statement as per PR Notice 93-10.

D. In the first set of “Directions for Use” on page 2, delete the heading “[Approved commercial and industrial applications not including homes, offices, automobiles, and institutions (e.g. schools, hospitals, day care centers, banks, churches, and correctional facilities etc.)]”. Replace with the following statement and do not include brackets or parenthesis “*Approved Commercial and Industrial Applications*”. Make the same revision at the beginning of page 3.

If you would like to add the original language as a note to the Agency this may be requested in a future submission and be proceeding by appropriate wording i.e. “Note to the Agency: Approved commercial and industrial applications not including homes, offices, automobiles, and institutions (e.g. schools, hospitals, day care centers, banks, churches, and correctional facilities”.

E. On page three, delete the symbol “etc.” from the phrase “Fiberfill for upholstery, sleeping bags, apparel, etc., where the fiber is...”

F. On page three, revise the phrase “Outerwear apparel (comprised of acetates, acrylics, cotton, fiberglass...and wool)” to include the types of outerwear which may be treated: “*jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos*”. Make this same revision on page five and six.

G. In the second set of “Directions for Use” on page 4, delete the heading “[Approved commercial applications used in homes, offices, automobiles, and institutions (e.g. schools, hospitals, day care centers, banks, churches, and correctional facilities etc.)]”. Replace with the following statement and do not include brackets, parenthesis or the symbol “etc.” “*Approved commercial applications used in homes, offices, automobiles, and institutions e.g. schools, hospitals, day care centers, banks, churches, and correctional facilities*”. This language must appear on the label. Make the same revision at the beginning of page 5.

H. In the second set of “Directions for Use” beginning on page 5 make the following revisions: delete the symbol “etc.” from the phrases describing “Fiberfill for upholstery...”, and “Disposable wiping clothes...”

I. In the third set of “Directions for Use” delete the brackets surrounding the phrases “For Homeowner Application” and “Approved Homeowner Uses”. This language must appear on the label.

J. On page 8, delete the symbol “etc.” from the directions for homeowners which begin “Mattress pad and mattress ticking and upholstery composed of acetates, acrylics...”

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K. On pages 8-9 in the directions for homeowners for tents, tarpaulins, sails, and ropes add "Remove excess liquid before attempting to dry in a clothes dryer." to the directions for the spray/soak method.

L. On page 10 in the directions for homeowners revise the claim "Bacteriostatic, fungistatic, algaestatic." to read "Bacteriostatic, fungistatic (mold and mildew), algaestatic." Note that whenever your final printed label includes the term "fungistatic" is must always be followed by the qualifier "(mold and mildew)".

M. On page 10 in the directions for homeowners delete the claim "Contains no harsh fumes." since this does not agree with the precautionary language for this product which states "...avoid breathing vapor."

2. Submit two ( 2 ) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



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

Enclosure: Stamped Label  
 7510C:T.Lantz:7/12/00:70871-11

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
JUL 13 2000

PAGE 1 - MASTER LABEL FOR AM 500

# BioShield AM 500

MICROBIOSTATIC AGENT \*  
A Silicone Quaternary Ammonium Salt

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70871-1

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. 70871-1

EPA EST. xxxxx-GA-xx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

Lot No. \_\_\_\_\_

### FIRST AID

#### IF IN EYES:

- 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 poison control center or doctor for treatment advice.

#### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

#### IF ON SKIN

- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

\* 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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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70871-1

PAGE- 2 - MASTER LABEL FOR AM 500

## 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

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 AM 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM 500.

## DIRECTIONS FOR USE

**[Approved commercial and industrial applications not including homes, offices, automobiles and institutions (e.g., schools, hospitals, day care centers, banks, churches, correctional facilities, etc.)]**

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.

Solutions can be prepared by simply adding AM 500 to solvent and stirring. AM 500 can also be diluted by adding 0.2 to 2 fluid ounces of AM 500 per cup (3.2 to 32 fluid ounces of AM 500 per gallon) of water or other solvents (for example, alcohol and ketones) and then 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.

The substrate can 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. If necessary, reapply AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM 500 when used as a concrete additive is added directly during concrete preparation. Use 6 fluid ounces AM 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

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**[APPROVED COMMERCIAL AND INDUSTRIAL APPLICATIONS NOT INCLUDING HOMES, OFFICES, AUTOMOBILES AND INSTITUTIONS (e.g., SCHOOLS, HOSPITALS, DAY CARE CENTERS, BANKS, CHURCHES, CORRECTIONAL FACILITIES, etc.)]**

The active ingredient in AM 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic 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
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewer structures; not to be used in treatment of storm drains
- Fiberfill for upholstery, sleeping bags, apparel, etc., where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass ductboard
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Mens underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (comprised of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool)
- Polyurethane 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 pesticidal properties)
- Roofing materials - defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual shoes
- Shoe insoles
- Shower curtains

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 13 2000

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

70871-1

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ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
JUL 13 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70871-1

- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene/nylon/Lycra, wool/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, etc.; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

**DIRECTIONS FOR USE**

**[Approved commercial applications used in homes, offices, automobiles and institutions (e.g., schools, hospitals, daycare centers, churches, correctional facilities, etc.)]**

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.

**For Pump Spray Application:** Dilute 8 ounces of AM 500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"- 6"s 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. AM 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM 500 may be required due to absorption. A fan may be used to assist in drying carpeting.

**For Commercial Spray Application:** For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, pressure sprayers) dilute 8 ounces of AM 500 per gallon of water (2 oz. 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. AM 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM 500 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 carpeting.

**For Dipping/Soaking Application:** Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM 500 solution to completely submerge item. Dilute 8 ounces of AM 500 per gallon of water (2 oz. 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.

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PAGE- 5 - MASTER LABEL FOR AM 500

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, and the Federal Insecticide,  
Fungicide, and Rodenticide Act, Reg. No. 70571-1

The substrate can be dried at room temperatures 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 AM 500 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, etc.)]**

The active ingredient in AM 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic 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
- Fiberfill for upholstery, sleeping bags, apparel, etc., where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass ductboard
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Mens underwear and outerwear
- Non-woven polyester
- Outerwear apparel (comprised of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool)
- Polyurethane 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
- Roofing materials - defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual shoes
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene/nylon/Lycra, wool/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, etc.; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 13 2000

**DIRECTIONS FOR USE**  
**[For homeowner applications]**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70871-1

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 AM 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic 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, hoisery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel. AM 500 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 AM 500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Drying may be attained by dripping dry or wringing 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 AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p> <p><b>SPRAY:</b> Dilute AM 500 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</p>

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			<p>sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM 500 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>
<p>Air filters and air filter material for</p> <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>	<p>Odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae</p>	<p>8 oz./ gallon 2 oz./ quart 1 oz./pint</p>	<p><b>SPRAY:</b> Dilute AM 500 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 AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.</p>
	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>
<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 AM 500 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 AM 500 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 fabric and carpets by treating and drying a small concealed area prior to application. AM 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM 500 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 AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
JUL 13 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,

registered under EPA Reg. No. 70871-1

10/3

	Pest controlled	Dilution Rate	Method of Application
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, apparel, etc. where the fiber is cotton, natural down, nylon, rayon or wool	Odor causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz./ gallon 2 oz./ quart 1 oz./pint	<b>SPRAY:</b> Dilute AM 500 in water; mix well. Clean surfaces prior to application. Using a trigger pump 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, reapply AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
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	<b>SPRAY:</b> Dilute AM 500 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 AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.  <b>DIP/SOAK:</b> Dilute AM 500 in water and mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM 500 solution to completely submerge item. Keep item in solution for three minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric 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

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with COMMENTS  
in EPA Letter Dated:

JUL 13 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 708 71-1

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JUL 13 2008

	Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 70871-1		example in a clothes dryer). If necessary, reapply AM 500 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>
Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats)	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 AM 500 in water; mix well. Make sure the roof is clean prior to application. Using a pressure sprayer, spray the entire surface area 6"-12" from the surface making sure the surface is completely covered. After applying the dilute solution of AM 500, let stand until dry. AM 500 treats approximately 200 square feet of roofing per diluted gallon of water. If necessary, reapply AM 500 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>
Buffer pads (polishing and abrasive), Polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz./ gallon 2 oz./ quart 1 oz./pint	<b>SPRAY:</b> Dilute AM 500 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 AM 500 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>
Tubs, glazed tiles, 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, formica, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl	Odor causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz./ gallon 2 oz./ quart 1 oz./pint	<b>SPRAY:</b> Dilute AM 500 in water; mix well. Using a trigger pump 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 AM 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 13 2000

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

70871-1

**MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR**

AM 500 is an antimicrobial agent effective against odor causing bacteria.

AM 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM 500 is an antimicrobial agent effective against fungi (mold and mildew).

AM 500 is an antimicrobial agent effective against algae.

AM 500, an antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen.

Bacteriostatic, fungistatic, algaestatic.

AM 500, an antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM 500, an 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.

Contains no harsh fumes.

**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 Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. [For homeowner use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

FOR MORE INFORMATION CONCERNING THIS PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS). THE MSDS CAN BE OBTAINED BY WRITING BIOSHIELD TECHNOLOGIES, INC. AT 4405 INTERNATIONAL BOULEVARD, SUITE B109, NORCROSS, GEORGIA, 30093.

**IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION**

BioShield Technologies, 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.

BIOSHIELD SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY

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