

75174-2

01-25-2012

1/15

Kevin R. Kutsel  
Agent for SiShield Technologies  
KRK Consulting LLC  
5807 Churchill Way  
Medina, OH 44256

JAN 25 2012

SUBJECT: EPA Registration Number: 75174-2  
Application Dated: December 20, 2011  
Receipt Date: December 27, 2011

Dear Mr. Kutsel:

This letter acknowledges receipt of the notification identified above submitted under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended and PR Notice 98-10 and 40 CFR 152.46.

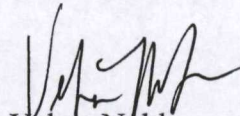
- Addition of an alternate brand name "Ecogard".

Based on a review of the submitted information, this notification is unacceptable for the following reason: use the term "eco" is not permissible because it implies safety and environmental preference [See 40 CFR 156.10(a)(5)(x)].

**General Comments**

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,



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

CONCURRENCES

SYMBOL	SURNAME	DATE					



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number SiShield Technologies Inc. / 75174-2		2. EPA Product Manager Velma Noble		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
4. Company/Product (Name) SiShield Technologies Inc. / Ecogard		PM# 31			
5. Name and Address of Applicant (Include ZIP Code) SiShield Technologies Inc. 17 Executive Park Drive, Suite 563 Atlanta, GA 30329 <input type="checkbox"/> Check if this is a new address			6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____		

**Section - II**

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

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
Please accept the alternate brand name for Reg. No. 75174-2 of "Ecogard" per PR Notice 98-10. Please see attached cover letter for required compliance statement regarding this PR Notice.

**Section - III**

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container  
2, 4, 8, 16, 20, 22, 36 oz  
1.5, 55, 150, 300 gallons

5. Location of Label Directions  
 On Label  On Labeling accompanying product

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper glued  
 Stenciled  Other \_\_\_\_\_

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Kevin Kutcel	Title Consultant	Telephone No. (Include Area Code) 440-263-7305
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**Certification**  
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Consultant	6. Date Application Received (Stamped)
4. Typed Name Kevin Kutcel	5. Date 12/20/2011	



NOTIFICATION  
 Date Reviewed: 11/25/12  
 Reviewed By: *[Signature]*



SiShield Technologies, Inc.  
 17 Executive Park Drive, Suite 563, Atlanta, GA 30329  
 404.636.8900 / 404.636.8500 fax -

**MICROBIOSTATIC AGENT**  
 A Silicene Quaternary Ammonium Salt

Active Ingredient:	3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride.....	5.0%
Other Ingredients:	.....	95.0%
<b>TOTAL</b>		
<b>INGREDIENTS:</b>	.....	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN  
 WARNING**

EPA Reg. No. 75174-2  
 EPA EST. 70918-SC-001  
 NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No. \_\_\_\_\_

**FIRST AID**

<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, 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.

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

**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 solutions by simply adding Ecogard to solvent and stirring. Dilute Ecogard by adding 0.2 to 2 fluid ounces of Ecogard per cup (3.2 to 32 fluid ounces of Ecogard 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.

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. For each application determine optimum drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply Ecogard every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

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

## Approved commercial and industrial applications

The active ingredient in Ecogard is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Ecogard 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
- 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, 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 (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- 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
- 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; 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**

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 Ecogard 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. Ecogard treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more Ecogard 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 Ecogard 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. Ecogard treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more Ecogard 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 Ecogard solution to completely submerge item. Dilute 8 ounces of Ecogard 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.

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 Ecogard 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 Ecogard is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Ecogard 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
- Fiberfill for upholstery, sleeping bags, apparel, 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 (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- 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; 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 Ecogard is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Ecogard 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, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). Ecogard 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 Ecogard in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Ecogard 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. Dry the substrates by hang-drying at room temperature or at temperatures to a maximum of 160 °C (320 °F); (for example in a clothes dryer). If necessary, reapply Ecogard every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p> <p><b>SPRAY:</b> Dilute Ecogard 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>

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

<p>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, where the fiber is cotton, natural down, nylon, rayon or wool</p>	<p>bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)</p>	<p>2 oz./ quart 1 oz./pint</p>	<p>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 Ecogard every three months or when odor, staining and discoloration due to bacteria, mold stains and mildew stains return.</p>
<p>Tents, tarpaulins, sails, ropes.</p>	<p><b>Pest controlled</b> Odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae</p>	<p><b>Dilution Rate</b> 8 oz./ gallon 2 oz./ quart 1 oz./pint</p>	<p style="text-align: center;"><b>Method of Application</b></p> <p><b>SPRAY:</b> Dilute Ecogard 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 Ecogard every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.</p> <p><b>DIP/SOAK:</b> Dilute Ecogard in water and mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Ecogard 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 example in a clothes dryer). Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply Ecogard every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and</p>

	<b>Pest controlled</b>	<b>Dilution Rate</b>	<b>Method of Application</b>
algae stains return.			
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>Method of Application</b> <b>SPRAY:</b> Dilute Ecogard 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 Ecogard, let stand until dry. Ecogard treats approximately 200 square feet of roofing per diluted gallon of water. If necessary, reapply Ecogard 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 and cellulose 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>Method of Application</b> <b>SPRAY:</b> Dilute Ecogard 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 Ecogard 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, exterior surfaces of 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>Method of Application</b> <b>SPRAY:</b> Dilute Ecogard 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 Ecogard every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

**MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR** Ecogard is an antimicrobial agent effective against odor causing bacteria. Ecogard is an antimicrobial agent effective against bacteria which cause staining and discoloration. Ecogard is an antimicrobial agent effective against fungi (mold and mildew). Ecogard is an antimicrobial agent effective against algae. Ecogard, an antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen.

Bacteriostatic, fungistatic (mold and mildew), algaestatic.  
Ecogard, an antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.  
Ecogard, 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.  
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 an invisible microbiostatic coating to inhibit the growth of odor causing bacteria.  
Provides an invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.  
Provides an invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).  
Provides an invisible microbiostatic coating to inhibit the growth of algae.  
Provides an 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.  
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.

### For Household/residential use packages:

**Storage and Disposal:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep tightly closed until ready to use. Reclose tightly after each use. Store in original, unopened containers at or below 25 C (77F) and above 0°C (32°F). 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 gallon or less):

**Storage and Disposal:** 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. Store in original, unopened containers at or below 25 C (77F). This product has a minimum shelf life of 12 months after date of shipment.

**Pesticide Disposal:** Wastes resulting from the use of this product may 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. 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.

### Pails, Drums and IBCs:

**Storage and Disposal:** 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. Store in original, unopened containers at or below 25 C (77F). This product has a minimum shelf life of 12 months after date of shipment.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** REFILLABLE CONTAINER. Refill this container with 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling, 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 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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