

**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 this product to solvent and stirring. Dilute this product by adding 0.2 to 2 fluid ounces of this product per cup (3.2 to 32 fluid ounces of this product per gallon) of water or other solvents (for example, alcohol and ketones) and then apply to organic or inorganic substrates by brushing, dipping, soaking, or spraying techniques to give a final treatment of 0.1 to 1 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. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply this product every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return . This product can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity: air filters/materials, bed sheets, blankets, bedspreads, carpets and draperies, mattress pads and ticking, shower curtains, outerwear apparel Uackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos), athletic and casual shoes, exterior walls (such as stone, concrete, brick), roofing materials - defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats. SEE ATTACHED PAGES FOR ADDITIONAL APPROVED COMMERCIAL AND INDUSTRIAL APPLICATIONS.

Covered by one or more US Patents: 6, 120,587; 6, 113,815; 5,954,869; 6,469, 120; 6, 762, 172

**ProShield® 5000 D  
MICROBIOSTATIC AGENT\* A Silicone  
Quaternary Ammonium Salt**

Active Ingredient:  
Octadecylaminodimethyltriethoxysilyl propyl ammonium chloride 5.0%  
Other Ingredients: 95.0%  
TOTAL INGREDIENTS: 100.0%

**KEEP OUT OF REACH OF CHILDREN WARNING**

See right panel for additional precautionary statements EPA Reg. No. 53053-8 EPA Est No. 53053-NC-01

**FIRST AID**

Have the product container or label with you when calling the poison control center or doctor, or going for treatment.  
**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.  
**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:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
**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 and fungi (mold and mildew), bacteria and fungi (mold and mildew) which cause staining and discoloration, and algae. This product does not protect users or others against food-borne or disease causing bacteria or fungi. Do not use in any application involving direct or indirect food or drinking water contact.

**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 or on clothing. Avoid contact with skin and avoid breathing vapors or spray mist. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using the toilet. 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 required during clean up if a spill occurs. De-activation of this product can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of this product. **IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION** IndusCo, Ltd ., 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. INDUSCO, LTD. SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY. FOR MORE INFORMATION CONCERNING THIS PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS). THE MSDS CAN BE OBTAINED BY WRITING IndusCo, Ltd., 2319 Joe Brown Drive, Greensboro, NC 27405. **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. Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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 in a sanitary landfill, or by other procedures approved by state and local authorities. ESL 052013 REV 061114

**ProShield® 5000 D provides an invisible microbiostatic coating to inhibit the growth of odor causing bacteria, bacteria and fungi (mold and mildew) which cause staining and discoloration and algae.**

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Prepare solutions by simply adding this product to solvent and stirring. Dilute this product by adding 0.2 to 2 fluid ounces of this product per cup (3.2 to 32 fluid ounces of this product per gallon) of water or other solvents (for example, alcohol and ketones) and then apply to organic or inorganic substrates by brushing, dipping, soaking, or spraying techniques to give a final treatment of 0.1 to 1 percent by weight active ingredient.

Dry substrate 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 this product every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

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

This product when used as an additive for paints and coatings is added directly during preparation of the paint and coating. Use 5 pounds of this product per 100 pounds of paint and coating (or 1 pound product per 20 pounds paint/coating). The addition of the antimicrobial agent (EnviroSystems® ProShield® 5000 D) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. This product 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 this product is effective against odor causing bacteria and fungi (mold and mildew), bacteria and fungi (mold and mildew) which cause staining and discoloration and algae as a static agent. Product 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
- 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 ductboard
- Fire hose fabric

- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- This product can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coating include: latex indoor/outdoor paints and stains, woodstains, architectural paints, laquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxane, amino resins, textile coatings, extrusion coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinyl ester and polyester coatings, gel coatings, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional 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/orion, 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, 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 the following institutions: schools, hospitals, daycare centers, churches, correctional facilities**

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**For Pump Spray Application:** Dilute 8 ounces of this product per gallon of water (2 oz. per quart; 1 oz. 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. This product treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more product 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 this product per gallon of water (2 oz. per quart; 1 oz. 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. This product treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more product 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 product solution to completely submerge item. Dilute 8 ounces of this product per gallon of water (2 oz. per quart; 1 oz. 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 this product 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 the following institutions:  
schools, hospitals, daycare centers, churches, correctional facilities**

The active ingredient in this product is effective against odor causing bacteria and fungi (mold and mildew), bacteria and fungi (mold and mildew) which cause staining and discoloration, and algae as a static agent. This product 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)
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- 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 ductboard
- 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 mops
- Polyurethane and polyethylene foam, when covered 4 of 5
- 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/orion, 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, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

#### **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 product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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 in a sanitary landfill, or by other procedures approved by state and local authorities.

FOR MORE INFORMATION CONCERNING PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS). THE MSDS CAN BE OBTAINED BY WRITING BIOSHIELD 90 CORP AT 4855 EAST 345<sup>TH</sup> STREET, WILLOUGHBY, OHIO 44094 440.373.9111

#### **IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION.**

IndusCo, Ltd., 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. INDUSCO, LTD. SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.