

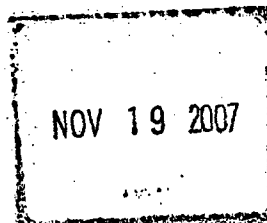
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

82077-3

11-19-2007

1/19

Robert Dahl
DuraBan International, Inc.
230 Capital Drive, Suite 300
Buffalo, MN 55313



SUBJECT: DuraBan
EPA Registration Number: 82077-3
Application Date: August 21, 2007
Receipt Date: August 21, 2007

Dear Mr. Robert Dahl:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

Conditions

1. Delete the references to misting on page 2 as well as the directions for this use on page 8. You were previously advised of the Agency's concerns regarding fogging of this product (Agency letter of 6/6/07). Since the "misting" use involves using a "Fogmaster" the Agency has the same exposure and risk assessment concerns which were previously identified. You withdrew the application for fogging and indicated that you had deleted this application method from your label. This "misting" use has the appearance of fogging.

This "misting" application method is not in agreement with the surfaces/objects identified for treatment on your label, information about the appropriate PPE to be worn by applicators has not been provided, the specific claim for this type of treatment is not included in the label text, and data compensation is required in order for such a use to be assessed.

2. As per the last stamped label for this product, revise the directions for use as a concrete additive on page 3 to be in agreement with the cited "me-too" label as follows: "...Use 6 fluid ounces DURABAN per cubic yard of concrete...."

CONCURRENCES

SYMBOL	7510P						
SURNAME	J. Leidy						
DATE	11/20/07						

2/19

3. Delete the following statement from page 3 and 6 as this statement is too broad: "Plastics, Fiberglass, Metals, Glass, Wood, Ceramics, Stone, Natural Materials, and Composites: Including the following:" This statement is not in agreement you're your label which indicates specific surfaces and items to be treated with this product.

4. Delete the reference to "stone" in the statements on page 3 and 6 which begin as follows: "Concrete slabs, blocks, foundations..." Stone is not a concrete product and thus this claim is not in agreement with the concrete additive directions on the label.

5. Revise pages 4, 5, 6, and 7 by deleting the following surfaces which are not appropriately qualified: "fibers," "fiberglass, (from section beginning: Interior non-food contact hard surfaces) "and household materials" (from statement beginning: Leather), "towels," "upholstery" and "wiping clothes."

6. Revise page 4 to read as follows: "Fiberglass ductboard for air handling systems at the point of manufacture."

7. Delete the repetitive occurrence of each of the following uses in the approved commercial and industrial applications section of your label (pages 4 and 6): "humidifier belts," "ropes," and "sand bags."

8. Revise pages 4 and 6 by clarifying the section beginning: Interior non food contact hard surfaces..." to begin exactly as follows: "Interior non food contact hard surfaces: floors, walls, ceiling tiles, ceramic tile, concrete, chrome...."

9. Delete the reference to sponges on pages 4 and 7 from the statement beginning: "Polyurethane and cellulose foam for household..." Use of this product on sponges for household use is in conflict with the statement on page 2 which indicates that this product is not to be used in any application involving direct or indirect food or drinking water contact. Household sponges may come in contact with dishes.

10. Revise pages 4 and 7 such that the statement beginning: "Structural Wood defined as..." reads exactly as follows: "Interior Structural Wood defined as only wood needed for basic building structures as found in the dried in stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring. Not to be used in association with in-ground contact applications, landscape timbers, docks, boardwalks, decking, and deck furniture or other dimensional lumber."

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

11. Revise page 6 by deleting the reference to the treatment of "Fiberglass ductboard for air handling systems" as this treatment is only to take place at the point of manufacture."

12. Delete the following four sections from page 8 as each of these sections are repetitive. Delete: "For Pump Spray Application," "For Commercial Spray Application," "For Dipping/Soaking Application" and "The substrate can be dried at room temperature..."

13. Revise page ten by deleting the following surfaces from the treatment by homeowners as these surfaces are not in agreement with the cited "me-too" label: 70871-5. Delete: "Carpet fiber and backing," "Carpet cushion and pad," "Wall board (drywall and gypsum)," "Wood surfaces," and "Concrete or cinder block."

14. Revise page 12 by deleting the following surfaces from the treatment by homeowners as these surfaces are not in agreement with the cited "me-too" label: 70871-5. Delete: "Exterior walls (such as stone, concrete, brick)," "Building materials and components (including siding, wall board, wood and wood composites, insulation and non-food contact cabinetry)," "Wood."

15. Revise the directions in the Roofing Materials section on page 12 as follows: "Make sure the roof is clean prior to..." Make this correction twice in this section.

16. Make the following revision to page 13 by deleting algae from the following statement: "Use on carpet and upholstery to inhibit the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew)." Algae is not the appropriate pest for these surfaces.

17. Revise the "Pesticide Disposal" statement on page 14 to use mandatory language as per PR Notice 2000-5 as follows: "Wastes resulting from the use of this product must be disposed..." Make this correction to both occurrences in this section.

18. You have indicated that your product will be marketed in metal, plastic and glass containers. Thus revise the "Storage and Disposal" section of the label by correcting the "Container Disposal" statements to be in agreement with PR Notice 83-3 as follows:

"Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: 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.

CONCURRENCES

SYMBOL								
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4/19

Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill, or by other approved state and local procedures.
You may continue to include the Homeowner use statement in this section.

General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

Velma Noble

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

Enclosure: Stamped label
 7510P:T.Lantz:11/19/07:82077-3a

CONCURRENCES

SYMBOL								
SURNAME								
DATE								



DuraBan
ANTIMICROBIAL AGENT
A Silicone Quaternary Ammonium Salt

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

KEEP OUT OF REACH OF CHILDREN

EPA Reg. No. 82077-03

WARNING

EPA EST. 82077-MN-01

NET CONTENTS: 2, 4, 8, 10, 16, 20, 22, 32, 36, 64, 75 or 120 fluid oz.; 1, 5, 55, 150, 250, 275 or 300 gal.

Lot No. _____

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, and 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, and 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.

* An Antimicrobial 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.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 19 2007

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 82077-3

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 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.

Every effort should be made to contain accidental spills of DURABAN to the immediate area. This may be accomplished by the use of sandbags or barrier material to confine the spill to facilitate cleanup and disposal. Contaminated sands or barrier material may then be disposed of by burial in an approval landfill. Many spills may be cleaned up with rags or other absorbent materials by wiping, soaking and/or mopping and allowing the liquid to absorb onto the material. The absorbent material may then be disposed of by incineration or landfill. Floor drains in areas of material use should be protected with absorbent material or barrier material to contain accidental spills.

De-activation may be required during clean up if a spill occurs. De-activation of DURABAN can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of DURABAN.


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.

Do not use in any application involving direct or indirect food or drinking water contact.

Prepare solutions by simply adding DURABAN to solvent and stirring. Dilute DURABAN by adding 0.2 to 2 fluid ounces of DURABAN per cup (3.2 to 32 fluid ounces of DURABAN 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,  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. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply DURABAN every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

DURABAN when used as a concrete additive is added directly during concrete preparation. Use 16 fluid ounces DURABAN per cubic yard of concrete. Add to water before addition of concrete. Addition of DURABAN reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

DURABAN when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of DURABAN per 100 pounds of paint or coating (or 1 pound DURABAN per 20 pounds paint/coating). The addition of the antimicrobial agent (DURABAN) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. DURABAN 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. *"Note: Any claims for paint use must be for the preservative of the paint in the can. DURABAN is to be used as an in can preservative for paints to control the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew) and algae."*

Approved commercial and industrial applications

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

~~Plastics, Metals, Glass, Wood, Ceramics, Stone, Natural Materials, and Composites. Including the following:~~

- Air filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems
- Air filters/materials
- Apparel recreational gear, outdoor, sportswear, sleepwear, socks, hosiery, undergarments, gloves and uniforms
- Aquarium filter material
- Athletic gear and sports equipment
- Automotive and vehicular parts
- Awnings
- Blankets
- Bedspreads
- Bed sheets, blankets, and bedspreads
- Bathroom and non-food contact kitchen hardware
- Book covers and pictures
- Buffer pads (abrasive and polishing)
- Carpets, carpet underlay and draperies
- Ceiling Tiles
- Cloth for sails
- Curtains
- Non-food contact counter tops
- Concrete slabs, blocks, foundations, cinder blocks, bricks, cement, grout, mortar, concrete add mixtures
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Draperies

- Fabrics (natural and synthetic, woven and non-woven)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- [REDACTED]
- Fiberglass ductboard for air handling systems
- Filling and ticking
- Fire hose fabric
- Flooring
- Floor covering
- Foam for packing and cushioning in non-food contact applications
- Footwear (boots, shoes and components)
- Furniture
- General purpose (non-food contact) containers
- [REDACTED]
- Interior non-food contact hard surfaces [REDACTED] floors, walls, ceiling, ceramic, tile, concrete, chrome, stainless steel, [REDACTED] vinyl, porcelain, paper wall covering, wood and glass fixture, marble, aluminum, book covers, pictures and furniture.
- Leather [REDACTED] and synthetic)
- Mattress pads and ticking
- Mats
- Men's underwear and outerwear
- Non-food contact convey or humidifier belts
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Disposable polyurethane foam cushions for Lapidus Airfloat Systems;
- DURABAN can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include : latex indoor/outdoor paints and stains, woodstains, architectural paints, laquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline , amino resins, textile coatings, extrusion coatings, architural coatings and

- overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coatings, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof; *
- Pillow covers
- Plumbing supplies and fixtures
- Polyurethane and cellulose foam for household, industrial, and institutional [REDACTED] and mop
- 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)
- Quilts and pillows
- Roofing materials - defined as shingles, roofing granules, tiles, membranes, underlayment wood shakes, felt, stone and synthetic overcoats
- Rugs
- Sheet and formed glass
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual shoes
- Shoe insoles
- Shower curtains
- Structural wood as defined as: only wood needed for basic building structure as found in the dried-in stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, flooring joists and sub-flooring. (not to be used in ground contact applications, landscape timbers, docks, boardwalks, decking and deck furniture or other dimensional lumber)
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene/nylon/Lycra, wool/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Tarps

- Tents and other outdoor equipments
- Throw rugs
- [REDACTED]
- Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet tank and seat covers
- Umbrellas
- [REDACTED]
- 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
- [REDACTED]
- Women's hosiery
- Women's intimate apparel

* "Note: Any claims for paint use must be for the preservative of the paint in the can. DURABAN is to be used as an in can preservative for paints to control the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew) and algae.

DIRECTIONS FOR USE

**Approved commercial applications used in homes, offices, automobiles and institutions
e.g., schools, hospitals, daycare centers, churches, correctional facilities, hotels, cruise and freight liners**

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.

Do not use in any application involving direct or indirect food or drinking water contact.

For Pump Spray Application: Dilute 8 ounces of DURABAN 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. DURABAN treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more DURABAN 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 DURABAN 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. DURABAN treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more DURABAN 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 DURABAN solution to completely submerge item. Dilute 8 ounces of DURABAN 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 clothes dryer. If necessary, reapply DURABAN every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

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

~~metals, glass, wood, ceramics, stone, natural materials, and composites including the following:~~

- Air filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems
- Air filters/materials
- Apparel, recreational gear, outerwear, sportswear, sleepwear, socks, hosiery, undergarments, gloves and uniforms
- Aquarium filter material
- Athletic gear and sports equipment
- Automotive and vehicular parts
- Awnings
- Blankets
- Bedspreads
- Bed sheets, blankets, and bedspreads
- Bathroom and non-food contact kitchen hardware
- Book covers and pictures
- Buffer pads (abrasive and polishing)
- Carpets, carpet underlay and draperies
- Ceiling Tiles
- Cloth for sails
- Curtains
- Draperies
- ~~Household linens~~
- Non-food contact counter tops
- Concrete slabs, blocks, foundations, cinder blocks, bricks, cement, grout, mortar, concrete add mixtures
- Non-food contact convey or humidifier belts
- Non-woven disposable diapers
- Exterior walls (such as stone, concrete, brick)
- Fabrics (natural and synthetic, woven and non-woven)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- ~~Blankets, bedspreads, and bed sheets~~
- ~~Fibers~~
- Filling and ticking
- Fire hose fabric
- Flooring
- Floor covering
- Foam for packing and cushioning in non-food contact applications
- Footwear (boots, shoes and components)
- Furniture
- General purpose (non-food contact) containers
- Interior non-food contact hard surfaces including: floors, walls, ceiling, ceramic, tile, concrete, chrome, stainless

PAGE 7 - MASTER LABEL FOR DURABAN

steel, [REDACTED], vinyl, porcelain, paper wall covering, wood and glass fixture, marble, aluminum, book covers, pictures and furniture.

- Leather and household materials [REDACTED]
- Mattress pads and ticking
- Mats
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Disposable polyurethane foam cushions for Lapidus Airfloat Systems;
- Pillow covers
- Plumbing supplies and fixtures
- Polyurethane and cellulose foam for household, industrial, and institutional [REDACTED] and mop
- 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)
- Quilts and pillows
- Roofing materials - defined as shingles, roofing granules, tiles, membranes, underlayment wood shakes, felt, stone and synthetic overcoats

- Rugs
- Sheet and formed glass
- 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
- Structural wood as defined as: only wood needed for basic building structure as found in the dried-in stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, flooring joists and sub-flooring. (not to be used in ground contact applications, landscape timbers, docks, boardwalks, decking and deck furniture or other dimensional lumber)
- Tarps
- Tents and other outdoor equipments
- Throw rugs
- [REDACTED]
- Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet tank and seat covers
- Umbrellas
- [REDACTED]

PAGE 8 - MASTER LABEL FOR DURABAN

For Pump Spray Application: Dilute 8 ounces of DURABAN per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4" to 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. DURABAN treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more DURABAN 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 DURABAN 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. DURABAN treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more DURABAN 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 DURABAN solution to completely submerge item. Dilute 8 ounces of DURABAN 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 60° C (320° F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply DURABAN every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

For Misting Application: Use electric or gas powered misting equipment (i.e., Solo 444, Fogmaster Nozzle Jet, or any appropriate electric mister). Dilute 16 ounces of DURABAN 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. DURABAN treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more DURABAN may be required due to absorption. A fan may be used to assist in drying.

"Do not mist into areas where food is prepared or stored, as this product is not for use on surfaces that contact food. Vacate the area of all personnel and animals for a minimum of 2 hours after misting. The mist generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual misting. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants."

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.

Do not use in any application involving direct or indirect food or drinking water contact.

Approved homeowner uses

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

Uses	Pest controlled	Dilution Rate	Method of Application
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). DURABAN 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	Odor causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz./ gallon 2 oz./ quart 1 oz./pint	<p>DIP/SOAK: Dilute DURABAN in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough DURABAN 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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p> <p>SPRAY: Dilute DURABAN in water; mix well. Clean surface</p>

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			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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
Uses	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for <ul style="list-style-type: none"> • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums 	Odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz./ gallon 2 oz./ quart 1 oz./pint	SPRAY: Dilute DURABAN 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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
Uses	Pest controlled	Dilution Rate	Method of Application
Carpeting Carpet fiber and backing Carpet cushion and padding Woolen carpeting and rugs Wool surfaces Concrete and masonry	Odor causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz./ gallon 2 oz./ quart 1 oz./pint	SPRAY: Dilute DURABAN 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 DURABAN 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. DURABAN treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more DURABAN may be required due to absorption. Dry

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			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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
Uses	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, 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	SPRAY: Dilute DURABAN 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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains and mildew stains return.
Uses	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	SPRAY: Dilute DURABAN 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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.

			<p>DIP/SOAK: Dilute DURABAN in water and mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough DURABAN 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 clothes dryer). Remove excess liquid before attempting to dry in clothes dryer. If necessary, reapply DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.</p>
Uses	Pest controlled	Dilution Rate	Method of Application
<p>Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats)</p> <p>Exterior walls (such as stone, concrete, brick)</p> <p>Building materials and components (including siding, wall board, wood and wood composites, insulation and non-foam contact cabinetry)</p> <p>Wood</p>	<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>SPRAY: Dilute DURABAN in water; mix well. Make sure the roof or wall 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 DURABAN, let stand until dry. DURABAN treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.</p>
Uses	Pest controlled	Dilution Rate	Method of Application
<p>Buffer pads (polishing and abrasive), Polyurethane and cellulose foam for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes</p>	<p>Odor causing bacteria, bacteria which cause staining and discoloration, and</p>	<p>8 oz./ gallon 2 oz./ quart 1 oz./pint</p>	<p>SPRAY: Dilute DURABAN 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 DURABAN every three months</p>

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	fungi (mold and mildew)		or if odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
Uses	Pest controlled	Dilution Rate	Method of Application
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, synthetic quartz, synthetic granite, 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	SPRAY: Dilute DURABAN 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 DURABAN every three months or if odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR DURABAN is an antimicrobial agent effective against odor causing bacteria.

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

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

DURABAN is an antimicrobial agent effective against algae.

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

Bacteriostatic, fungistatic (mold and mildew), algastatic.

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

DURABAN, 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 made of fiberglass, glazed porcelain, Formica®, Corian®, Silestone® stainless steel, synthetic marble and synthetic Quartz.

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 mildew~~.

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

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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.

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: **Metal Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: 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.

Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[For homeowner use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

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FOR MORE INFORMATION CONCERNING THIS PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS). THE MSDS CAN BE OBTAINED BY WRITING DuraBan International Inc, 230 Capital Drive, Suite 300, Buffalo, MN 55313 or at www.durabanintl.com.

IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION

DuraBan International Inc., warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this label 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 label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use.

DURABAN INTERNATIONAL INC. DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.

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