

# MICROBAN

## X-590

### INSTITUTIONAL SPRAY

MILDEWCIDE • BACTERICIDE • FUNGICIDE  
 DEODORANT, DISINFECTANT AND ANTIMICROBIAL

FOR INSTITUTIONAL, HOUSEHOLD, FARM PREMISE USES AND ANIMAL QUARTERS

Formula X-590 is a Broad Spectrum Disinfectant Against most Bacteria  
 and is also effective in controlling insects, fungus and bacterial or organic odors.

ACTIVE INGREDIENTS

o-Phenylphenol .....	ACCEPTED  JUN 28 1995  <small>Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 6768-16</small>	0.22%
Diisobutylphenoxyethoxy ethyl dimethyl benzyl ammonium chloride monohydrate .....		0.70%
N-octyl bicycloheptene dicarboximide .....		0.33%
Piperonyl butoxide technical .....		0.20%
Allethrin .....		0.10%
INERT INGREDIENTS .....		98.45%
TOTAL .....		100.00%

[ equivalent to (butylcarbityl) (6-propyl piperonyl) ether: 0.16% and related compounds: 0.04%]

E.P.A. Reg. 6768-16

E.P.A. EST. 6768-PA-1

KEEP OUT OF REACH OF CHILDREN

## WARNING

Statements of Practical Treatment

First Aid: in case of Contact flush eyes and skin with plenty of water for at least fifteen minutes. For eyes get medical attention. If swallowed drink promptly large quantities of water. Do not induce vomiting. Avoid alcohol. Get prompt medical attention. Remove and wash contaminated clothing before reuse.

See other precautions on side panel

Net Contents 1 PT. 1 QT. 1 GAL. 5 GAL. 55 GAL.  
 Mfg by: MICROBAN GERMICIDE COMPANY P.O. Box 777, Braddock, PA 15104  
 SHAKE WELL BEFORE AND DURING USE  
 U.S. PATENT 4,350,000  
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## **GENERAL METHOD OF APPLICATION**

Surfaces and objects must be cleaned of gross filth with suitable detergent before treatment. Spray surfaces and articles until thoroughly wet, use enough so that treated surfaces and objects remain wet for at least 10 minutes. May be applied with a sponge to pre-cleaned, hard non-porous surfaces, allowing to dry for 10 minutes. For fogging and other large volume applications use appropriate spraying equipment, protective clothing, gloves and respirator. Heavily treated spaces should be adequately ventilated and not re-entered for at least one hour after treatment.

**AS A MILDEWCIDE, FUNGICIDE AND BROAD SPECTRUM DISINFECTANT:** (Kills most gram negative and gram positive bacteria and influenza virus). In hospitals, operating rooms, emergency rooms, lobbies, hallways, patient rooms, wards, washrooms, scrub stations, mop rooms, morgues, pathology labs, nurse's stations, laboratories, veterinary clinics, and other health care facilities; in schools, hotels, motels, restaurants, offices, homes, and industrial buildings.

For use on pre-cleaned hard non-porous surfaces such as glazed tiled porcelain, waste receptacles, compactors, on, in and around rest room fixtures, toilet seats, locker rooms, telephones, door knobs, hospital apparatus and equipment, furniture, empty containerized storage units. For athletes foot fungus on floors, shower stalls, rest rooms. Follow method of application specified above.

### **AS A BACTERIOSTAT, FUNGISTAT, AND DEODORIZING AGENT**

Apply Microban Formula X-590 as directed to floors, walls, ceiling that have been damaged by smoke, fire, floods and sewage backups. For cleanup operations in areas such as attics, wall voids, basements, areas above suspended ceilings and similar inaccessible spaces in building. Spray avian, rodent and other animal and human wastes and carcasses as directed above prior to removal and disposal. Treat spaces and surfaces as specified in method of application. For use as a bacteriostat, fungistat, and deodorizing agent on carpeting found in schools, hotels, motels, homes, shelters and commercial and residential buildings. After flood or water damage, vacuum or extract as much water as possible before application. Apply full strength with sprayer until moist to carpet nap and rake or brush in. To treat the backing or padding a fogger is recommended. Allow to remain until dry. For best results, carpets should be cleaned before application.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

### **TO DISINFECT FARM PREMISES, POULTRY HOUSES, ANIMAL PENS AND VEHICLES**

Remove all animals and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and retraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse. Apply Microban X-590 full strength as directed in general method of application until thoroughly wet. Allow all surfaces to dry thoroughly, ventilate enclosed spaces adequately. Do not house animals in treated areas until thoroughly dry and free from odors. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

## **PRECAUTIONARY STATEMENTS:**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS:**

**WARNING:** May be harmful if swallowed (inhaled or absorbed through the skin). Do not breathe vapors (dust or spray mist). Do not get in eyes, on skin or on clothing. May cause eye (and skin) irritation.

### **STORAGE AND DISPOSAL**

**Storage:** Keep from freezing. Store in ventilated areas. Do not contaminate water, food or feed by storage and disposal. Dispose left overs in landfill approved for pesticides.

**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:** Large containers (55 gallon drums and 5 gallon pails): Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities. Small container (1 gallon or less): Rinse thoroughly and discard with trash.

**TEST FABRIC OR SURFACE IN AN INCONSPICUOUS AREA FOR COLOR FASTNESS OR ADVERSE REACTION**

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Microban Formula X-590 should be applied with hand or power operated sprayers, foggers, automated metering systems or gravity drip dispensers as an insecticide, bactericide, mold and mildewcide, fungicide and deodorizing agent, to previously cleaned surfaces, spray areas until thoroughly moist, giving special attention to cracks and crevices. Allow ten to twenty minutes for drying. It is not necessary to wipe the sprayed surface. Microban should not stain those materials not stained by water.

Direct and repeat spraying of Ants, Roaches, Bedbugs, Silverfish, and other harmful insects and the cracks, crevices and hidden surfaces where they hide are necessary for control. Apply every 28 days or as often as needed.

**To Kill Fleas and Ticks:** Remove and destroy old animal bedding. Spray sleeping quarters of animals, floor areas, around baseboards, window and door frames, cracks, crevices and whatever the presence of these insects is suspected. Repeat as necessary. Thoroughly vacuum rugs and carpets prior to application. Do not spray animals. Put fresh bedding in animal quarters after spray has dried. Treat animals with a registered flea and tick control product before allowing them to enter treated area.

**To Kill Sowbugs, Centipedes, Firebrats, Mites:** Contact as many insects as possible with the spray. Also thoroughly spray all parts of the room suspected of harboring the pests. Special attention should be paid to cracks, crevices, hidden surfaces under sinks, basement and utility rooms, floors, doorjams, behind and under stoves and refrigerators.

**To Kill Flies, Mosquitoes, Gnats and Wasps:** Close all doors and windows and spray upward into center of room with a slow sweeping motion. Spray 5-10 seconds for average room. Keep room closed for 1 minutes after spraying. Ventilate room thoroughly before re-entry. Sweep up and destroy fallen insects. Before spraying cover exposed food and utensils.

**To Kill Carpet Beetles, Lice and Moths:** Clean all articles prior to application. Thoroughly spray top and undersides of rugs and carpets. Thoroughly spray the interiors of lockers, trunks, closets, cupboards and other storage areas. Spray directly on restroom fixtures. When treating upholstered furniture and mattresses thoroughly spray exterior paying particular attention to seams, and folds, interior should be treated to eliminate hidden infestations.

Microban Formula X-590 when used as directed is effective in decontaminating the treated exposed surfaces of bedding, mattresses, textiles, drapes, upholstered furniture, rugs, carpets and in storage areas to control mold, mildew, fungus, insects and odors wherever they are a problem.

- Pest Control Service
- Odor Control Service
- Carpet Cleaning Service
- Water Damage Service
- Restoration Service
- Disinfection Service
- Waste-Removal Service
- Trash Chutes and Garbage Rooms
- Waste Compactors
- Storage areas and Basements
- Condensation collection and Drainage areas
- Refuse trucks
- Second hand furniture stores
- Movie booths
- Bowling alleys
- Exercise rooms
- Veterinaries
- Laundry receiving stations
- Shoes & boots
- Antique shops
- Upholsterers shops

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SHAKE WELL BEFORE AND DURING USE