

**MEDICLEAN DISINFECTANT SPRAY PLUS**

**FRAGRANCE FREE**

**INERT INGREDIENTS ______________________________________ 99.08%**

**ACTIVE INGREDIENTS**

Diisobutylphenoxyethoxy ethyl o-Phenylphenol ______________________________________    0.22%

**NOT REGISTERED FOR SALE/USE IN CALIFORNIA**

**WARNING**

Keep out of reach of children.

**DIRECTIONS FOR USE**

A moistened cloth or disposable wipes should be used to clean dirty surfaces or objects thoroughly before applying the Disinfectant Spray Plus. Do not apply the spray to treated surfaces that are wet or damp. The Disinfectant Spray Plus is a broad spectrum disinfectant and is also effective against fungi, mold & mildew, and odors caused by bacteria.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

See other general warning section on side panel.

**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. Allow all surfaces to remain moist for the recommended contact time, at least 10 minutes. Surfaces with embedded organic material may require longer contact time. Surfaces should be allowed to dry in ventilated areas. This product is not for use on porous, texturized, colored, lacquered, varnished, or rough-grained surfaces. Avoid inhaling aerosol mist or vapor. Do not apply in excess of 12 feet away from treated surfaces. Do not apply in rooms where people are present except in areas with negative pressure ventilation systems. Do not cover treated surfaces with any non-porous material. In this condition, the product may remain effective for up to 24 hours. Do not use on foods or food processing equipment until treated surfaces are thoroughly dry. Do not house animals in treated areas until thoroughly dry and free from odors.

**STORAGE AND DISPOSAL**

Storage: Keep from freezing. Store in ventilated areas. Do not contain water before feed and storage by disposal. Dispose leftovers in landfills approved for pesticides.

### **GENERAL USES**

**As a Bacteriostat, Fungistat and Deodorizing Agent**

Apply Mediclean Disinfectant Spray Plus to surfaces that have been exposed to any form of infectious disease causing organisms. Use any form of infectious disease causing organisms. Use this product to disinfect farm premises, poultry houses, animal pens and vehicles. Remove all animals and from use from areas before disinfection; remove feces and urine from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and litter and bedding thrown by or on animals. Apply thoroughly and at least 30 feet from treated surfaces. The treated area may require additional disinfection due to the presence of infectious disease causing organisms.

### **As a Deodorant and Disinfectant (Anti-Microbial)**

Mediclean Disinfectant Spray Plus is a broad spectrum disinfectant and is also effective against fungi, mold & mildew, and odors caused by bacteria.

**AS A DISINFECTANT FOR PERSONAL PROTECTIVE EQUIPMENT AND COMMERCIAL MACHINERY**

Applying Mediclean Disinfectant Spray Plus to personal protective equipment and machinery as directed will provide a disinfection and deodorization effect on treated surfaces.

**AS A DISINFECTANT FOR AIR DUCT USAGE**

Applying Mediclean Disinfectant Spray Plus to air ducts is indicated for a variety of applications. It is effective during the construction phase of duct systems, during the renovation phase of duct systems, and during the operation of air duct systems. Mediclean Disinfectant Spray Plus, when used as directed, is effective in eliminating bacteria, fungi, viruses, and disinfecting the air ducts and the air they contain. Molds and other fungi are killed by exposure to the disinfectant spray. For air duct usage, Mediclean Disinfectant Spray Plus is effective against fungi, mold & mildew, and odors caused by bacteria.

**AS A DISINFECTANT FOR TREATMENT OF PERIORAL MUCOSAL ORGIANS**

Applying Mediclean Disinfectant Spray Plus to the oral cavity, including teeth, gums, and tongue, when used as directed, is effective in killing fungi, bacteria, and viruses that are present in the oral cavity.

**AS A DISINFECTANT FOR FARM PREMISES, POULTRY HOUSES, ANIMAL PENS AND VEHICLES**

To disinfect farm premises, poultry houses, animal pens and vehicles, Mediclean Disinfectant Spray Plus should be applied in a manner consistent with the labeling instructions.
MILDEWCID • BACTERICIDE • FUNGICIDE
DEODORANT AND DISINFECTANT (Anti-Microbial)

For Household Use, Farm Premises and Animals Quarter

MediClean Disinfectant Spray Plus is a Broad Spectrum Disinfectant and is Also Effective Against Fungi, Mold & Mildew, and Odors Caused by Bacteria

KEEP OUT OF REACH OF CHILDREN

WARNING

See other precautions below.

NOT REGISTERED FOR SALE/USE IN CALIFORNIA

Manufactured For: PRORESTORE PRODUCTS 15180 Josh Wilson Road, Burlington, WA 98233 • U.S. Patent No. 3,458,629

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

FIRST AID: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a Poison Control Center or doctor for further 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. 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 ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor for going treatment.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: 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. Causes eye (and skin) irritation.

PERSONAL PROTECTION EQUIPMENT REQUIREMENTS FOR HANDLERS: All handlers must wear protective eyewear, long pants, long-sleeved shirts and chemical resistant gloves.

STANDARD SPECIAL INSTRUCTIONS FOR APPLICATORS: Applicators treating the inside of an air duct system with this product must wear chemical resistant coveralls, chemical resistant gloves, and chemical resistant goggles. In addition, the ductwork must be fitted with an airfoil of 0.255 inches (6.5 mm) per square foot of duct cross section. If this is not possible, OSHA confined space regulations must be followed and the requirements for a permit required space apply. These requirements include testing the atmosphere and use of adequate respirator protection. If the level of contamination cannot be determined, then maximum respiratory protection (SCBA or airline with an escape bottle) must be used. If needed, the full-face respirator should also be equipped with a spray mist pre-filter in addition to the charcoal filters.

ENGINEERING CONTROLS: During UVL, mist or spray application, the duct system interior must be maintained under slight negative pressure (0.015 to 0.025 in. WG) with an outdoor exhaust or using a negative air machine equipped with HEPA filter. Avoid higher pressure differentials that would be likely to disrupt the coverage pattern.

STORAGE AND DISPOSAL

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

Pesticide Disposal: Waste 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 equivalent). Then for recycling, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL METHOD OF APPLICATION

Surfaces and objects must be cleaned of gross filth with suitable detergent before treatment. Spray materials and surfaces 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 impervious covers and surfaces, allowing to dry for 10 minutes. For fogging and other large volume applications use appropriate spraying equipment, protective clothing, gloves and respirator. Heavy treated spaces should be adequately ventilated and not re-entered for at least one hour after treatment.

AS A MILDEWCID, BACTERICIDE, BROAD SPECTRUM DISINFECTANT AND VIRUCIDE*: (kills the influenza virus). In laboratories, hallways, washrooms, mop rooms, and veterinary clinics; in schools, hotels, motels, restaurants, offices, homes, hospitals, schools, and industrial buildings.

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

AS A BACTERIOCID, FUNGICID, AND DEODORIZING AGENT

Apply MediClean Disinfectant Spray Plus as directed to floors, walls, surfaces, and objects in buildings, for decontaminating bedding, mattresses, clothing, gloves and respirator. Heavily treated spaces should be adequately ventilated and not re-entered for at least one hour after treatment.

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 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 ten minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining 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 live stock 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 MediClean Disinfectant Spray Plus full strength as directed in the 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.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. MediClean Disinfectant Spray Plus should be applied with hand or power operated sprayers, foggers, automated metering systems or gravity drip dispensers as a broad spectrum disinfectant, mold and mildewicide, 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. MediClean Disinfectant Spray Plus should not be applied to materials not cleaned by the spray. MediClean Disinfectant Spray Plus, when used as directed, is effective in decontaminating bedding, mattresses, textiles, drapes, upholstered furniture, rugs, carpets and in storage areas to control mold, mildew, fungus and odors wherever they are a problem.

USE DIRECTIONS FOR AIR DUCTS: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING THE PERSON APPL YING THIS PRODUCT IS RESPONSIBLE FOR FOLLOWING THESE DIRECTIONS UNDER BOTH STATE AND FEDERAL LAWS.

1.0 General. MEDICLEAN DISINFECTANT SPRAY PLUS is designed to be used as one component of a comprehensive HVAC and duct maintenance program. The purpose of such a program is to assure that the HVAC system and ducts function in the manner they were designed to, free from mold and other microbial growth and other contamination, and continue in that condition. This product must only be used in only those cases where visual microbial growth has been detected in the system and where the conditions to that end are not re-entered for at least one hour after treatment. If you need help in understanding any part of these instructions or have additional questions after reading these instructions, DO NOT APPLY THISPRODUCT until you have received the answers for all of your questions.

2.0 Inspection. Prior to inspecting, cleaning, treating, repairing or otherwise working on a duct section, the HVAC system should be turned off or the section under repair physically isolated from sections in active use. Prior to any application of MEDICLEAN DISINFECTANT SPRAY PLUS the condition must be inspected and found be in a clean condition. When initiating any measures to repair, clean or treat ducts and associated HVAC system components, industry standards from the National Air Duct Cleaners Association (NADCA) and other organizations must be followed. HVAC systems should be routinely inspected for cleanliness by visual means. The NADCA Standard, Assessment, Cleaning and Restoration of HVAC Systems (AAR2002 or the latest revision), provides minimum recommended inspection frequency schedules for ducts and other system components. More information on NADCA standards can be obtained from the NADCA web site at www.nadca.com.

2.1 Cleaning and Inspection. According to NADCA standards, HVAC system cleaning shall be performed when any of the following conditions are found in the cleanliness inspection. If any of these deficiencies are found during inspection, cleaning in accordance with industry standards must be performed prior to the application of MEDICLEAN DISINFECTANT SPRAY PLUS.

2.1.1 Contamination, • HVAC systems should be operated in a clean condition. If significant accumulations of contaminants or debris are visually observed within the HVAC system, then cleaning is necessary. Likewise, if evidence of microbial growth is visually observed or confirmed by analytical methods, then cleaning is required. • If the HVAC system discharges visible particulate into the occupied space, or a significant contribution of airborne particles from the HVAC system into the indoor ambient air is confirmed, then cleaning is necessary.

Continued on other side.
• Heat exchangers, cooling coils, air flow control devices, filtration devices, and air-handling equipment determined to have restrictions, blockages, or contamination deposits that may cause system performance inefficiencies, air flow degradation, or that may significantly affect the design intent of the HVAC system, require cleaning.
• Drain pans must be free from slime and sludge or other contamination. Badly rusted or corroded drain pans must either be repaired or replaced. 
• Fans and fan housings must be free from accumulations of microbial growth and particulate matter.

If you need help in interpreting industry standards, contact ProRestore® Products at 800-332-6037 for guidance and further direction or consult the information at www.epa.gov (search on air ducts). In addition, the following association and society Internet sites should be consulted for information on standards and guidelines they have developed:

2.2 Design, Installation, and Operation

1.9  Ducts and HVAC System Components
PLUS must penetrate into surface crevices and irregularities or it will not be effective. Inspect and assure that penetration is satisfactory. It may be helpful to apply half of the quantity needed for full coverage spraying from side to side then
Apply until surface is evenly wet. Mist coverage 500 ft² per gallon. Wipe not recommended. Spray coverage 250 ft² per gallon. MEDICLEAN DISINFECTANT SPRAY

3.6  Returning the System to Operation following Application.

3.3.2  Application of MEDICLEAN DISINFECTANT SPRAY PLUS from within the HVAC system

3.2.1  Brush, Mop or Wipe Application.

• Air supply and return ducts and plenum fabricated with plywood, OSB or other wood like material.
• Condensate drain plenum
• Natural fiber brushes are preferred although any quality brush is acceptable. Mops types should be those that leave minimal lint behind. Micro-fiber or other non linting clothes are preferable. Where other types of cloths are used, they should be made to contain sufficient quantity of liquid to provide uniform coverage and to keep aerosol spray contained. The applicator must have access to the surfaces being treated. Usually this will require entering the ducts. In such cases, application must start from the point most distant from the point of entry into the duct. The applicator will then work from that point back to the entry point covering a 3 foot length of duct at a time. Apply to the top of the duct first, followed by the sides then the floor of the duct. Overlap applications to assure complete coverage. Cover completely while avoiding runs or pooling.

3.3.1  Application of MEDICLEAN DISINFECTANT SPRAY PLUS from openings at intervals throughout the duct system or on components that are accessible through removable panels or access doors. 

Spray equipment chosen should provide a consistent fine (1-300 micron) particle size and uniform spray pattern. Powered medium pressure sprayers are preferred. However, airless sprayers are suitable. Where airless sprayers are used, the most satisfactory spray pattern will be achieved using a 0.011” spray tip. For other brands and options contact ProRestore® Products at 800-332-6037.

Fur up pump garden type sprayers can be used but care must be taken to maintain maximum pressure by frequent filtering and the spray nozzle must be adjusted for the finest spray pattern possible. During application achieve complete uniform coverage across the surface being treated. Avoid mist forming or dripping and do not allow the spray to run off.

3.2.3  ULV or Mist Generating Sprayers.

When MEDICLEAN DISINFECTANT SPRAY PLUS cannot be sprayed into openings at intervals throughout the duct system, you must gain entry into the system and spray the product onto interior duct surfaces and other surfaces that are thoroughly and uniformly covered using hand or powered spray equipment. This is the most frequently used technique and is the technique of choice for air handlers, other components and areas where direct access can be gained to surfaces being treated.

Spray equipment should be such that the sprayer generates a fine uniform spray pattern. These devices must be visually monitored while spraying for the correct spray pattern and application quantity. Generally a ULV fog will carry and provide adequate coverage up to 8 feet from the point of application. MEDICLEAN DISINFECTANT SPRAY PLUS is a bactericidal (fungicidal and mild) wester and deodorizer for use in residential, commercial and industrial settings. It will not stain or bleach materials or fabrics and will not harm or damage HVAC system components.

The ducts must be free of dirt and dust before applying air disinfectant. After air disinfectant is applied, the section of duct being treated must be isolated until treatment is complete. This will prevent the spray of fog from being blown away from the surface that is being treated. 

2.2.2  Loss and Mechanical Defects.

Loose, damaged, friable or missing insulation – Insulation is important in preventing moisture condensation and subsequent growth of mold and other organisms. If insulation (either interior or exterior) is damaged, missing or not properly fastened it must be replaced or repaired or the associated duct sections replaced. Air handler, mixing, and VAV box housings are also normally insulated and this insulation should be checked for damage in a like manner. Removed components that are contaminated with mold and other microbial growth may spread contamination while being removed from the building. To prevent this, smaller items should be placed in plastic bags that should then be sealed before being removed. Larger items that cannot safely be packaged should be treated before being moved through occupied spaces. An appropriately labeled disinfectant can be used during treatment. Care must be taken during treatment to avoid respiratory issues and to prevent contamination of the building from being occupied during treatment.

When the above directions are followed properly, there will not be significant concentrations of MEDICLEAN DISINFECTANT SPRAY PLUS released to the spaces served by a system being treated. It is recommended that affected areas of the building be occupied during treatment.

The system can be returned to full operation as soon as treatment is completed or at any time following completion of treatment.

Do not attempt to use the system fan or blower to carry MEDICLEAN DISINFECTANT SPRAY PLUS to the surfaces in the air duct system. Such a practice will not result in uniform application of the product to the surfaces being treated and will lead to ineffective control. This should never be attempted.

The system can be run for full operation as soon as treatment is completed or at any time following completion of treatment. MEDICLEAN DISINFECTANT SPRAY PLUS will dry on surfaces within 15 minutes following application. Extended drying time does not have an impact on effectiveness of treatment. MEDICLEAN DISINFECTANT SPRAY PLUS should not be rinsed off following application so it will continue to inhibit the growth of microorganisms on treated surfaces.

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