FIBERLOCK

RESTORATION + ABATEMENT

FB SOLUTIONS

DUCT DEFENDER

HVAC CLEANING BIOCIDE

- FAN COIL UNITS
- CONDENSATE DRAIN PANS
- UNLINED SHEET METAL DUCTS
- DEHUMIDIFIERS BOTH DESICCANT AND REFRIGERATED
- AIR HANDLERS
- FLEXIBLE AIR DUCTS FABRICATED OF METAL OR PLASTIC

NSF

LISTED #173489
No rinse required for food contact surfaces (D2)

ACTIVE INGREDIENTS:

CHLORINE DIOXIDE	0.200%
ALKYL (60% C_{14}, 30% C_{16}, 5% C_{12}, 5% C_{18}) DIMETHYL BENZYL AMMONIUM CHLORIDE	0.125%
ALKYL (68% C_{12}, 32% C_{14}) DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE	0.125%
OTHER INGREDIENTS	99.550%
TOTAL	100.000%

NET CONTENTS
128 FL. OZ. (3.78 L)

KEEP OUT OF REACH OF CHILDREN

MADE IN THE USA

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Test fabric for color fastness. Contains a dilute oxidizing agent. Do not mix with vinegar or acidic cleaners. Always refer to manufacturer's care instructions before using equipment or devices.

DUCT DEFENDER KILLS: Mildewstat:10 Minute Contact Time: Aspergillus niger ATCC 6275 Disinfection Bacteria 10 Minute Contact Time: Pseudomonas aeruginosa ATCC 15442; Acinetobacter baumannii ATCC 19606; Staphylococcus aureus MRSA ATCC 33592; Listeria monocytogenes ATCC 15313; Legionella pneumophila ATCC 33153; Salmonella enterica ATCC 10708, Staphylococcus aureus ATCC 6538; Klebsiella pneumoniae (NDM-1) ATCC BAA-2146; Escherichia Coli ATCC 11229; Bordetella bronchiseptica ATCC 10580; Mycobacterium bovis-BCG; Penicillin-Resistant Streptococcus pneumoniae ATCC# 700677; Chlamydia psittaci, Strain 6BC, ATCCVR-125; Proteus mirabilis ATCC 7002; Streptococcus pyogenes ATCC 14289 Disinfection Virus 5 Minute Contact Time: Severe Acute Respiratory Syndrome-Related Coronavirus 2 (SARS-CoV-2)(COVID-19 Virus)**; Rotavirus, Strain WA **; Hepatitis C Virus Bovine Viral Diarrhea Virus**; Hepatitis B Virus Duck Hepatitis**; Norovirus Feline Calicivirus**; Murine Norovirus (MNV-1)**; Swine Influenza (H1N1) **; Respiratory Syncytial virus, ATCC VR-26**; Human Immunodeficiency Virus (HIV Type 1) Strain HTLV-IIIb**; Influenza B Virus (Strain B/Taiwan/2/62), ATCC VR-1735**; Hepatitis A Virus ATCC VR-1541**; Hantavirus (Prospect Hill Virus) University of Ontario **; Canine Distemper Virus, Strain Snyder Hill, ATCC VR** Disinfection Virus 10 Minute Contact Time: Adenovirus 1, Strain Adenoid 71, ATCC VR-1**; Canine Parvovirus, Strain Cornell-780916, ATCC VR-2016**; Canine adenovirus 1, Strain Utrecht, ATCC VR-293**; Feline Herpesvirus 1 Strain C-27, ATCC VR-636**; Feline coronavirus, Strain WSU 79-1683, ATCC VR 989**; Canine coronavirus Strain 1-71, ATCC VR-809**; Canine Influenza (H3N8) virus, Strain A/Ca/NY/105913/08, Cornell University**; Feline Infectious Peritonitis Virus, Strain: WSU 79 1146, ATCC# VR-990**; Feline panleukopenia virus, Strain Philips-Roxane, ATCC VR-648**; Rabies Virus, Strain: Flury (HEP), ATCC VR-139**; Avian Influenza (H5N1) Virus (VNH5N1-PR8/CDC-RG), CDC #2006719965, Charles River Laboratories; Herpes Simplex Virus 1 (Human), Strain HF, ATCC VR-260**; Porcine Epidemic Diarrhea Virus, Strain CO 2013, USDA APHIS 025-PDV001**; Porcine Reproductive and Respiratory Syndrome Type 2 Virus, Strain NVSL (North America) NVSL 130 PDV**; Canine herpesvirus, D 004 strain, ATCC VR-552**; Canine parainfluenza virus, 78-238 strain, ATCC VR-1573**; Herpes simplex virus 2, G strain, ATCC VR-734**; Human coronavirus, 229E strain, ATCC VR-740**

AREAS OF USE INCLUDE: homes, vehicles, schools & daycare, gyms & locker rooms, sports gear, hospitals, nursing homes, laundry rooms, veterinary, pharmacies, ambulances, barber shops, laboratories, restaurants, boats, ships, federally inspected meat & poultry processing plants, farms, animal pens and poultry houses, egg processing premises, hatcheries, swine premise sanitation, refrigerated storage units (empty & disconnected)^, HVAC and AC systems including window ptac mini splits, airplanes¶, trains, trucks, buses & automobiles. Use as a mold controller & mildewstat on hard non-porous surfaces (i.e, tiles) and soft surfaces (i.e, fabrics) ¶

PRE-CLEANING INSTRUCTIONS: Remove visible soil by cleaning. Spray product straight onto soils, scrub and wipe clean with a dry paper towel or cloth. For cleaning floors add one cup product per gallon of water in bucket and clean with sponge, mop and pad.

To Disinfect Hard Non-porous Surfaces: For disinfecting pre-cleaned hard non-porous surfaces such as glass, plastic, painted wood, laminate, chrome, stainless steel, polyurethane coated hardwood floors, glazed ceramic tile, sealed concrete & linoleum floors. Types of items include: Exterior of appliances, bed frames, cabinet handles, wheelchairs, child car seats, counters, cribs, doorknobs, tables, tubs, exterior toilet surfaces, faucet handles, handrails, jungle gyms, keyboards, light switch covers, patio furniture, showers, sinks, stovetops^, telephones, toys, walls, waste containers. Apply product undiluted full strength to pre-cleaned hard non-porous surfaces, wetting thoroughly with spray, sponge, mop, or by immersion in solution. Allow surfaces to remain wet for 5 minutes or 10 minutes for virus inactivation (refer to the viruses table for contact times) - 10 minutes for bacteria disinfection. For immersion, replace solution daily, or more frequently if it becomes significantly soiled or diluted Fogging and Misting: product can be applied by fogging or misting to disinfect hard, nonporous surfaces. Apply by fogging or misting until surface is moist using equipment manufacturer's directions for use. Remove or carefully protect all food and food packaging materials prior to treatment. Vacate treatment area and do not reenter treated area until air is clear (minimum 20 minutes to reentry). For disinfection by ULV misting machine application, see the product Supplemental Bulletin specific for equipment to be used.

To Disinfect Hard Non-porous Surfaces (tuberculocidal): For disinfecting pre-cleaned hard nonporous surfaces such as glass, plastic, painted wood, laminate, chrome, stainless steel, polyurethane coated hardwood floors, glazed ceramic tile, sealed concrete & linoleum floors. Types of items include: Exterior of appliances, bed frames, cabinet handles, wheelchairs, child car seats, counters, cribs, doorknobs, tables, tubs, exterior toilet surfaces, faucet handles, handrails, jungle gyms, keyboards, light switch covers, patio furniture, showers, sinks, stovetops^, telephones, toys, walls, waste containers. Apply product full strength to pre-cleaned hard non-porous surfaces, wetting thoroughly with spray, sponge, mop, or by immersion in solution. Allow surfaces to remain wet for 10 minutes for Mycobacterium bovis-BCG disinfection. For immersion replace solution daily, or more frequently if it becomes significantly soiled or diluted.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATIONS AGAINST HIV-1, HBV, and HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS KILLS HIV-1, HBV, AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings or other settings in which there is expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and surfaces/ objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Human Hepatitis B virus, and Human Hepatitis C Virus. When handling items soiled with blood or bodily fluids use disposable latex gloves, gowns, masks, and eye coverings.

CLEANING PROCEDURES: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product. DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

CONTACT TIME: Allow surfaces to remain wet for 5 minutes for virus inactivation.

General Directions for use with Electrostatic Spraying: For use on hard non-porous surfaces Pre-cleaning Instructions: Remove visible soil by cleaning. Spray product straight onto soils, scrub and wipe clean with a dry paper towel or cloth. Remove by-standers and pets from area to be treated. Do not use for treatment of humans, air or fumigation. Sprayer droplet particle size should set to limit volume median diameter of > 40 um. Use N95 filtering facepiece respirators or half face respirators with N95 filters. Plan the spray routine to minimize unnecessary exposure to treated areas (for example, begin applying product in the back of the room/area and work towards the front of the room/area). Place the electrostatic spray function in the ON position for electrostatic spray model that have the functionality to toggle ON/OFF. Spray distance should be between 2 ft. and 2 ft. + 6 in. for 10 seconds. All surfaces must remain visibly wet for 10 minutes. Once treatment is completed, allow treated room to remain unoccupied until the sprayed product has settled before re-entry to the treated space. Consider compatibility and potential for damage prior to application. Always refer to manufacturer's care instructions before using equipment or devices.

Allergen Removal: To reduce specified allergens, cockroach matter, dust mite matter, pet dander: Spray, wait 1 minute, and wipe excess. Allow to air dry. Fungicide: To Kill Fungus on hard, non-porous surfaces: Remove visible surface dirt by cleaning. Apply product to the surface until thoroughly wet for 10 minutes. Re-apply when cleaning or when new growth appears. For effective control of the fungus Trichophyton interdigitale, the surface must be completely wet with product for 10 minutes.

MILDEWSTAT: For Mold or Mildew on Floors, Walls, Ceilings & Fabric: Remove as much surface dirt, mold, or mildew as possible by cleaning. Then spray on product from a distance of 12 inches until visibly wet and let air dry, the surface must be completely wet with product for 10 minutes.

TO CLEAN via Fogging: This product can be applied effectively with a ULV fogger as a supplement to normal cleaning procedures on restoration and remediation projects in confined, vacant areas of schools, healthcare facilities, and in HVAC systems as well other vacant, indoor areas. It is effective for precleaning or as a supplement to final cleaning. Note: These use directions are for cleaning only. This product is ready-to-use in ULV foggers. Seal off doors and windows in the area prior to fogging. After fogging, vacate the treated area during the treatment interval as specified by the device manufacturer, and do not re-enter the treated area until all fog has settled or been exhausted. After the treatment interval, ventilate the treated area until the air is purged of all suspended product. Do not operate equipment in the fogged area until the treatment is dry. When fogging as a pre-treatment, follow the cleaning and disinfection procedures on the product label.

To Deodorize: Product works by oxidation, not by masking of odors. Eliminates odors caused by fire smoke, tobacco smoke, musty odors, stale-cooking odors. Simply spray, fog, or wipe on full strength and let air dry. When fogging to deodorize apply 1 quart per 2000 cubic ft. following fogger manufacturer's directions for use. Product must come into contact with the cause of the odor to be effective. For pet urine stains in carpet, blot urine as dry as possible then saturate stain with Product through carpet pad.

TO DEODORIZE HVAC System Ductwork: Spray product into system intake vents while system fan is running. Allow enough spray time for product to contact air duct system surfaces. Repeat application as necessary.

HVAC: FOR ANTIMICRIOBIAL CONTROL OF NON PATHOGENIC MICRO-ORGANISMS IN HVAC SYSTEMS AND AIR DUCTS (INCLUDING ODOR CAUSING BACTERIA, MOLD FUNGUS AND ODOR-CAUSING FUNGI)[Use QR Code for complete instructions] This Product 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, remain free from odor-causing mold and other microbial growth and other contamination, and continue in that condition. This Product should only be used in only those cases where visible microbial growth has been detected in the system and then only after removing that growth and identifying and correcting the conditions that led to that growth. It may also be used to inhibit growth on surfaces that normally become wet during operation of the system. These normally include (but are not limited to) evaporator coils, uninsulated piping, condensate drain pans, drain lines, silicon caulks, mist eliminators and cabinet housing components subject to wetting by mist or carryover of water. If you need help in understanding any part of these instructions or have additional questions after reading these instructions, DO NOT APPLY THIS PRODUCT until you have received the answers for all of your questions. For complete instructions - scan QR code below.

STORAGE AND DISPOSAL:

Store in original closed container in a cool, dry, place away from heat and open flame. Do not allow product to become overheated in storage. Avoid prolonged storage temperature above 40ºC, 90ºF and away from direct sunlight. This may cause increased degradation of the product, which will decrease product effectiveness. Non-refillable.

Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container. Container Disposal: Rinse and offer empty container for recycling. If recycling is not available, discard container in trash. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Discard excess or used product solution in drain with running water.

FIRST AID: If in eyes: Hold eye open and rinse slowly with water 15-20 mins. Remove contact lenses after first 5 mins. and continue rinsing. Call a Poison Control Center or doctor for treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment.

¶ refer to the appropriate claims and use directions for this application.
^ equipment should be allowed to come to room temperature prior to treatment
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USE QR CODE FOR COMPLETE INSTRUCTIONS

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