Max-Defense ~ 3 Step Process

Our MaxDefense AMT is a three step process:

1) **Deep Clean** - Surfaces with mPerial™ prep cleaner/disinfectant so the surface will be clean for mPale™ to adhere. Use a GRIP degreaser or equivalent to get out hard to clean “gunk” if necessary. Use pad or brush if necessary as well. Always test inconspicuous area to make sure pad/brush doesn’t harm or scratch surface.

2) **Disinfectant** – Surfaces with mPerial™ to kill 99.9% of offending microbes in a matter of minutes. Mist on with spray bottle and wipe with clean cloth. Let air dry.

3) **Coat** – Apply a smooth coat of mPale Anti-Microbial treatment (EPA 83129-1) with the AEGIS Technology to form a network of molecular swords protecting the surfaces and fighting against microbes. Simply mist on the surface and wipe to smooth out the coat. Just like you wax a floor.

Surfaces Cleaned, disinfected and Coated with Anti-Microbial Solution can be:

**Office Areas, Conference Rooms, Reception, Common Areas, Hallways, Waiting Areas, Stairwells, Front Entrance, Etc.**
- Desks
- Phones, Keyboards, Mouse’ (never spray directly on electrical equipment)
- Chairs
- Door Knobs
- Light Switches
- File Handles
- Counters

**Restrooms, Locker Rooms, Shower Rooms**
- Toilets Seats (Both Sides)
- Toilet Rim
- Flush Valve
- Sink
- Fixtures
- Dispensers
- Handicap Hand Rails
- Showers Walls, Shower Stalls, Shower Fixtures, Shower Floors
- Lockers (doors, handles, etc)

**Break Room(s), Exam Rooms, Lab Areas, Etc.**
- All tables
- Counters and Kitchen Sinks
- Fixtures, Dispensers
- Touch Pad of Microwave

Certified Maintenance Service, Inc.
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CMS is an Authorized Service Provider of the Max Defense System.
Do’s and Don’ts of the Application Process

DO’S

1. Do make sure you use all products according to their labels and MSDS sheets
2. Do be safe. See labels for safety guidelines.
3. Do use personal protective equipment as required by label.
4. Wear protective eyewear (goggles or face shield) and rubber 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.
5. Make sure areas are deep cleaned with GRIP or mPerial® before applying mPale®.
6. Make sure you smooth the mPale® solution with a clean microfiber cloth so it doesn’t puddle. Always apply smooth coats.
7. Exercise caution around computer monitors, mirrors, glassesCover computer screens, mirrors, and glass if you are spraying our chemicals around or near them.
8. Read the MSDS sheets and become familiar with them.
9. USE OUR THREE STEP PROCESS
   o 1. DEEP CLEAN SURFACE WITH MPERIAL™ or G.R.I.P
   o 2. DISINFECT WITH MPERIAL™
   o 3. COAT WITH A FINE SMOOTH COAT OF MPALE™
DON’T’S

1. DON’T SPRAY ON COMPUTER MONITORS, GLASS OR MIRRORS.
2. DON’T SPRAY DIRECTLY ON ELECTRICAL EQUIPMENT. Spray on the clean microfiber towel and then wipe.
3. DON’T OVER SPRAY so mPale® puddles.
4. Don’t rub the mPale™ in the surfaces. All you need to do is coat the surfaces with a thin smooth coat and let it air dry.
5. DON’T MAKE HEALTH CLAIMS ABOUT OUR PRODUCTS!
6. DON’T APPLY TO HARD FLOOR SURFACES such as VCT.
7. DON’T APPLY WITH AN ELECTROSTATIC SPRAYER.
8. DON’T APPLY WITHOUT WEARING SAFETY GLASSES AND A MASK.
9. DON’T APPLY TO ANY HUMANS OR PETS.
10. DON’T APPLY OR SPRAY NEAR AQUARIUMS.
11. DON’T MAKE ANY HEALTH CLAIMS ABOUT OUR PRODUCTS!
12. DON’T MAKE ANY HEALTH CLAIMS ABOUT OUR PRODUCTS!
13. **DO NOT** SPRAY ON COMPUTER MONITORS, GLASS OR MIRRORS. IT CAN RUIN THEM AND YOU WILL BE RESPONSIBLE.
mPale® Antimicrobial with AEGIS™ Microbe Shield

mPale Antimicrobial is specially formulated for professional application to protect your valuable assets from the risks associated with bacteria, mold and mildew contamination.

- EPA registered antimicrobial Reg. No. 83129-1
- Exclusive product of mPact Environmental Solutions®
- Controls or eliminates the growth of bacteria, mold and mildew
- Does not create adaptive organisms (superbugs)
- Use on interior hard and soft surfaces
- Odorless and Colorless
- Nanotechnology bonding chemistry will not rub off on skin or wash out through repeated cleaning
- No heavy metals or harsh chemicals to pollute the environment
- Applied by professionally trained, certified applicators
- Is powered by the AEGIS Microbe Shield™ technology, safely used in the medical community, in collegiate and professional locker rooms, and in textiles since 1976

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Guidelines for Post-Treatment Care
Of Surfaces Treated with mPale® Antimicrobial with Aegis Microbe Shield

Overview: The keystone of the Max-Defense System is the application of the mPale® with ÆGIS Microbe Shield. This unique material chemically alters the surfaces to which it is applied and literally becomes part of these surfaces. These newly created surfaces have an active antimicrobial effect is extremely durable – but it can be removed or deactivated if abused. To maintain the greatest effectiveness and longevity, three basic factors should be remembered: 1) The antimicrobial surface layer can be removed by abrasion; 2) it can be deactivated by highly caustic materials (over pH 11); and 3) it can be temporarily inactivated if a film or other covering prevents direct contact with microorganisms. Conventional antimicrobial materials are designed to dissipate into the air or into solution and be absorbed by organisms. Once absorbed, they act by poisoning the organisms or causing fatal mutations. In contrast, mPale Antimicrobial does not dissipate and acts by rupturing the organism’s cell wall on contact. If contact is prevented by some covering material (such as soap film or layer of pollutants) the antimicrobial effect is lost until the covering film or pollutant is removed.

Basic Maintenance Rules: Surfaces treated with mPale Antimicrobial can be effectively maintained with normal housekeeping procedures. To assure that treated surfaces retain their maximum effectiveness, a few simple rules should be followed.

1. General good housekeeping practices should be followed. Frequent vacuuming or washing will remove much of the soil on which organisms feed and will not harm the antimicrobial.

2. Any liquids spilled on carpets or other treated surfaces should be cleaned up immediately. They, like soil, can offer a breeding ground for microorganisms.

3. Treated carpeting may be steam cleaned or cleaned with conventional cleaning processes. Chemical processes should be followed with a rinse extraction step to remove residual films.

4. Never use scouring pads or abrasive cleaners on treated areas.

5. Do not use highly caustic agents (over pH 11) on treated areas

6. Painting, waxing, or applying surface treatments to treated areas produces a new surface that is not microbiocidal and prevents mPale Antimicrobial from acting.

7. All newly installed or renovated surfaces should be treated with mPale Antimicrobial to prevent the development of microbial reservoirs within the building.

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TRAINING AND SAFETY- mPALE™

PRECAUTIONARY STATEMENTS:
Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation; avoid contact with eyes, skin, and clothing. Wear protective eyewear (glasses, goggles, or faceshield) and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

KEEP OUT OF REACH OF CHILDREN

FIRST AID
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first five minutes, then continue rinsing. Call a Poison Control Center or doctor for treatment advice.
If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a Poison Control Center or doctor for treatment advice.
If in skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water.
If swallowed: 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.

STORAGE AND DISPOSAL
Do not contaminate water, food, or feed by storage and disposal.
Storage: Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep lid tightly closed until ready for use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), this product has a shelf life of 12 months from date of purchase.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Do not reuse containers. Triple rinse (or equivalent) empty containers. Then offer for recycling, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. This container will have product residues when emptied. All hazard precautions on label must be observed when handling emptied container.

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APPROVED USES: This product is effective against odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew) and algae as a static agent. This product can be used as a final bacteriostatic finish on the following items to impart bacteriostatic, fungistatic (mold and mildew) activity:

Interior Non-Food Contact Hard Surfaces: Walls and Wall Coverings, Ceramic Tile, Concrete, Chrome, Stainless Steel, Sealed Fiberglass, Vinyl, Porcelain, Wood and Glass Fixtures, Marble, and Aluminum.

PRODUCT FEATURES AND BENEFITS:
This product imparts durable biostatic activity to the surface of a wide variety of substrates. This product is effective against mold, mildew and algae as a static agent.
Increased efficiency- through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimal amount of this product.
Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.

DIRECTIONS FOR USE
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 rubber 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.

This product is to be applied to organic and inorganic surfaces as supplied by brushing, dipping, padding, soaking, spraying or fogging until adequately wet, or applying by foaming techniques. After applying treatment, the surface should be allowed to dry at temperatures from ambient to a maximum of 160° (320°F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. If necessary, reapply this product every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
For Pump Spray Application: Using pump sprayer, spray entire area 4-6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand three minutes and wipe dry with a cloth or sponge. If spotting occurs, wipe with a moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area prior to application. When treating coarser substrates, more of this product may be required due to absorption.

ENVIRONMENTAL HAZARDS:
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 the discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of this product can be achieved by the addition of an anionic surfactant or detergent (such as soap, sulfones, or sulfates) in quantity equivalent to that of the active ingredient.
What you can and can’t say about mPale™ and mPerial™

Can Say:

It is an anti-microbial chemical that it:
- mPale™ and mPerial™ are EPA registered
- mPale™ is Clear, colorless, odorless, and non-toxic.
- mPerial™ will kill 99.9% of microbes listed on its label.
- Both are Environmentally friendly
- Both Contains no heavy metals or harsh fumes.
- Both Doesn’t alter the surface.
- mPale™ Not affected by normal housekeeping procedures, including steam cleaning.
- mPale™ Provides long-term resistance to mold and fungi as well as most harmful bacteria.
- mPale™ Control microorganisms’ without chemical poisoning.
- mPale™ Offers an affordable way to control mold and bacteria for the long term.
- mPale™ Minimizes institutional liability by demonstrating a proactive approach to safety.
- mPale™ Creates a biological safety net over the touch areas of your facility.
- mPale™ Protecting surfaces from pathogenic organisms and fungi, month after month.

mPerial® Kill 99.9% of the Microbes below. mPale will fights against and inhibits the re-growth of the microbes below by attracting and puncturing the cell membranes:

Bacteria: Pseudomonas aeruginosa PRD 10, Escherichia Coli or E. Coli, Klebsiella pneumoniae, Salmonella schottmulleri, Salmonella choleresuis, Streptococcus salivarious, Brevibacterium ammoniagenes, Streptococcus faecalis, Shigella dysenteria, Enterobacter aerogenes, Staphylococcus aureus, Methicillin resistant Staphylococcus aureus (MRSA), Vancomycin intermediate resistant Staphylococcus aureus (VISA),

Fungi: Trichophyton metagrophytes or commonly known as Athlete’s Foot fungus or Ringworm. It also kills and prevents the growth of new molds or mildews.

Virus: Influenza A2/Japan (common flu virus), Herpes Simplex Type 1 (fever blister type), Adenovirus Type 2 (causative agent for upper respiratory infections), Vaccinia virus (rep. of Pox virus group), Human Immunodeficiency Virus Type 1 (HIV 1), Human Coronavirus (ATCC VR-740, Strain 229E), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Norovirus (Norwalk Virus), Bovine Viral Diarrhea Virus (BVDV), and Feline calicivirus (FCV), SARS Associated Coronavirus and Avian Influenza A, Canine Parvovirus, Rabies, Rhinovirus type 39, and Rotavirus.

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Can Say:
Our MaxDefense System controls microorganisms without chemical poisoning. Instead it relies on electrically charged particles that have a unique spiked molecular structure. The silane base of this spike forms a covalent bond with virtually any surface and locks it, in turn, to each adjoining molecule.

In nature, bacteria, mold, and fungi carry the opposite negative electrical charge—so they are physically and irresistibly drawn into contact with the anti-microbial treatment. The physical contact punctures the cell walls of the offending microbes. These molecular spikes are undetectable to human touch, but are highly effective against most molds, fungi, and bacteria. Properly applied our treatment bonds on hard and soft surfaces for up to one year in most areas and provides a long-term deterrent to microbial conditions.

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Things you Can’t Say!!

You cannot make any health claims! Such as:

If we treat your facility no one will ever be sick again.
This will reduce your sickness in your facility.
This will kill all microbes and make your facility sterile.
This will reduce your chance of illness by 10%.
None of your athletes will ever get MRSA, Ringworm, the Flu, etc.

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