

# SpectraSan 24™

## Applications by Market

### Schools, Universities & Educational Facilities

<p><b>Desks &amp; Counters</b></p>	<p><b>Option 1:</b></p> <ol style="list-style-type: none"> <li>1. Mist <b>SpectraSan24</b> lightly on desks and counters.</li> <li>2. Allow 2 minutes of dwell time,</li> <li>3. Wipe with a microfiber cloth.</li> </ol> <p><b>Option 2:</b></p> <ol style="list-style-type: none"> <li>1. Mist <b>SpectraSan 24</b> (Fogmaster Jr.) lightly over the desks while walking down the aisles.</li> <li>2. Lightly mist all surfaces. Covered.</li> <li>3. Allow 2 minutes of dwell time.</li> <li>4. Wipe with a microfiber cloth.</li> </ol>
<p><b>Chairs</b></p>	<ol style="list-style-type: none"> <li>1. Lightly mist <b>SpectraSan 24</b> on all chair surfaces, including top and underside of the arm rests and seat.</li> <li>2. Allow 2 minutes of dwell time.</li> <li>3. Wipe with a microfiber cloth.</li> </ol>
<p><b>Door Knobs</b></p>	<ol style="list-style-type: none"> <li>1. Lightly mist <b>SpectraSan 24</b> on the door knobs or wet-wipe with a microfiber cloth.</li> <li>2. Allow 2 minutes of dwell time.</li> <li>3. Wipe dry with a microfiber cloth.</li> </ol>
<p><b>Computer Keyboards</b></p>	<ol style="list-style-type: none"> <li>1. Keyboard covers can be quickly and easily wiped clean and disinfected.</li> <li>2. If the facility does not have computer covers available, the keyboards should be wiped daily with a solution of <b>SpectraSan 24</b> liberally sprayed on a Microfiber cloth and wiped over the keys.</li> <li>3. Allow the keys to remain moist for 2 minutes.</li> <li>4. Wipe with a clean microfiber cloth.</li> </ol>
<p><b>Vending Machines</b></p>	<ol style="list-style-type: none"> <li>1. Mist <b>SpectraSan 24</b> on all high touch surfaces including buttons, levers, and coin return.</li> <li>2. Allow 2 minutes of dwell time.</li> <li>3. Wipe with a microfiber cloth.</li> </ol>
<p><b>Restrooms</b></p>	<ol style="list-style-type: none"> <li>1. Thoroughly clean all sinks, fixtures, and</li> </ol>



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### Schools, Universities & Educational Facilities

<p><b>Restrooms (cont)</b></p>	<p>countertops with a mild detergent or general all purpose cleaner.</p> <ol style="list-style-type: none"> <li>2. Rinse soap scum, hair and other organic matter down the drain and wipe dry.</li> <li>3. Spray or wet wipe <b>SpectraSan 24</b> on all hard surfaces and fixtures, allow 2 minutes of contact time and then wipe with a microfiber cloth.</li> <li>4. Toilet bowls should be scrubbed daily with a mild, non-acidic toilet bowl cleaner. Thoroughly clean around the interior of the bowl and under the rim. Use a toilet bowl brush on the interior of the bowl and on all the hard to reach surfaces.</li> <li>5. Allow the toilet bowl cleaner to sit in the bowl for 10 minutes (or according to the product label instructions) and then flush.</li> <li>6. Clean the exterior of the toilet with a mild detergent or all purpose cleaner. Wipe the exterior surfaces dry.</li> <li>7. Spray the exterior with <b>SpectraSan 24</b>; allow 2 minutes of dwell time.</li> <li>8. Wipe with a microfiber cloth.</li> </ol>
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### Nurse & School Physician Offices

Visibly soiled surfaces must be cleaned using friction, all purpose cleaner, soap, or water first then re-wiped. Non-visibly soiled surfaces may be wiped thoroughly with all purpose cleaner once. When using SpectraSan 24, spray/saturate a clean microfiber cloth and wipe the surface using friction. Allow the surface to remain moist for 2 minutes. (*Spraying the surface and letting it air dry could result in using too much product and leaving the surface tacky.*)

Item to clean	Wipe down what?	When?	With What?
Blood pressure cuff	Cuff, tubing, bulb	After each use	Wet wipe with <b>SpectraSan 24</b>



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## Applications by Market

### Schools, Universities & Educational Facilities

Stethoscope	Bell and tubing	After each use	Wipe with IPA (isopropyl alcohol) followed by <b>SpectraSan 24</b>
Reflex hammer	Handle and Head	After each use	Wipe with <b>SpectraSan 24</b>
Otoscope speculae (Disposable preferred)	If reusable, wash and disinfect speculae	All surfaces after each use	IPA may be used for non-disposable otoscope speculae, soak for 20 minutes.
Otoscope handle	Handle	All surfaces after each use	<b>SpectraSan 24</b> , Allow to air dry
Ear thermometer, Temporal scanner thermometer	All surfaces	All surfaces after each use	<b>SpectraSan 24</b> , Allow to air dry
Digital thermometer with disposable probes	All surfaces, except disposable probe	After each use	Wipe machine with <b>SpectraSan 24</b> and air dry. Discard disposable probe after each use.
Basin	Basin	After each use	Wash in enzymatic detergent such as <b>SpectraSan Medical Enzyme Detergent</b> or a mild detergent. Rinse well and autoclave if available.
Canes, walkers crutches, wheelchairs, rehab equipment	Special attention to surfaces that are in contact with people	Between patients	If visibly soiled, clean first with friction. Wipe down with <b>SpectraSan 24</b>
Exam tables	Top of table, other areas that came in contact with patient	After each use	If visibly soiled, clean first with friction. Wipe down with <b>SpectraSan 24</b>



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## Applications by Market

### Schools, Universities & Educational Facilities

	and /or bodily fluids		
Door knobs, phones keyboards, light switches, hand sanitizer dispenser, pen lights and other hand touch items in nursing area	“Community” pen at the desk, shared keyboards, counters, telephones, doorknobs, drawer pulls and other “hand touch” areas	At least twice daily (Clean often as this is a health care area)	If visibly soiled, clean first with friction. Wipe down with <b>SpectraSan 24</b>
Waiting room: chairs, tables, etc.	All surfaces that can come in contact with patient	First thing in the morning and at the end of the day.	If visibly soiled, clean first with friction. Wipe down with <b>SpectraSan 24</b>

<b>Infection Control Policies and Procedures Checklist for Schools &amp; Universities</b>	<b>Policy/Procedures</b>		
Please review the policies and procedures below. Use this tool to determine which policies/procedures you already have, if they are being followed, and which policies and procedures you need to put in place.	<b>Exist</b>  (X)	<b>Followed</b>  (X)	<b>Needed</b>  (X)
<b>Health, Hygiene, and First Aid Reporting</b>			
If a cluster of three or more cases of illness occurs in a single group, the local health department needs to be notified.			



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## Applications by Market

### Schools, Universities & Educational Facilities

Referrals are made to licensed health providers when H1N1 incidents or MRSA skin infections are suspected.			
Athletes are strongly encouraged to report possible skin infections to coaches and coaches are encouraged to assess athletes regularly for skin infections and report findings to school health team.			
<i>Notes:</i>			
<b>Infection Control in the Infirmary/Nurse's Office</b>	<b>Exist</b>	<b>Followed</b>	<b>Needed</b>
Contact precautions are used when performing a wound care procedure. Standard precautions are used if the potential for splashing exists. Masks and gloves should be worn when caring for students with blood, open wounds, and/or Staph, MRSA, Norovirus, and/or H1N1 flu symptoms.			
Disposable gloves are worn if contact with non intact skin or mucous membranes is expected. Hands are washed before starting care, and immediately after removing gloves.			
If soap and water are not available, 63% or greater alcohol hand sanitizer is used ( <i>labeled antimicrobial or antiseptic</i> ).			
Potentially contaminated surfaces are to be cleaned, rinsed, dried, then disinfected with <b>SpectraSan 24</b> .			
Infirmary cots (surfaces that come in contact with patient) are cleaned if visible dirty and wiped down after each use. Disinfect by wet wiping with <b>SpectraSan 24</b> or lightly misting <b>SpectraSan 24</b> on the surface, allowing 2 minutes of dwell time and then wiping with a clean microfiber cloth.			



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## Applications by Market

### Schools, Universities & Educational Facilities

Potentially soiled linen and clothing are washed with laundry detergent in water at 160F or greater. 1 cup of bleach is used if water is less than 160F. Items are dried in a hot dryer.			
Door knob, phones, keyboards, light switches, and other hand touch items in the Infirmary are wet wiped using a microfiber cloth twice daily.			
Stethoscopes are wiped with isopropyl alcohol or wet wiped with <b>SpectraSan 24</b> .			
<i>Notes:</i>			
<b>General Information</b> <b>Prevention and Infectious Disease Control</b>			
	<b>Exist</b>	<b>Followed</b>	<b>Needed</b>
Students with open wounds keep them covered with dressings that are taped on all four sides.			
Students with colds, flu-like symptoms, low grade fever, coughing, sneezing, or have sore throats should be isolated from healthy students. <i>Close proximity of campers mitigate transmission.</i>			
Personal hygiene training available to all students and staff, including instructions on coughing and sneezing etiquette, signs and symptoms of infection, and the proper protocol to report and a handle such illnesses.			
Students with Flu, Strep, Pink Eye, Staph, Wounds, or other types of infections <b>DO NOT</b> participate in contact sports			
Students and staff who participate in contact sports or are			



# SpectraSan 24™

## Applications by Market

### Schools, Universities & Educational Facilities

involved in close contact with groups of students are strongly encouraged to shower immediately after these activities.			
Notes:			
Signature:			Date:

<b><i>Infectious Disease Control Policies and Procedures Checklist (Continued)</i></b>	<b>Policy/Procedures</b>		
	<b>Exist (X)</b>	<b>Followed (X)</b>	<b>Needed (X)</b>
<b>Sports Equipment</b>			
Sports equipment (balls, racquet grips, bats, gloves, field hockey sticks, head gear, helmets, shoulder pads, fitness equipment, weight training equipment, cardio equipment) are cleaned and disinfected regularly with <b>SpectraSan 24</b> . 1. Lightly mist sports equipment using <b>SpectraSan 24</b> in a Fogmaster Jr. 2. Allow 2-minutes of dwell time. 3. Wipe with a clean microfiber cloth.			
All shared equipment that comes into direct contact with the skin of a student is cleaned and disinfected with <b>SpectraSan 24</b> at least once daily.			
Notes:			
<b>First Aid</b>			



# SpectraSan 24™

## Applications by Market

### Schools, Universities & Educational Facilities

(Antimicrobial) Hand Sanitizer (63% alcohol or greater) is in the first aid kit—to be used when liquid soap & water is not available.			
When caring for any injury, disposable gloves are used and hands are sanitized, both before and after providing first aid.			
Scoops (not hands) are used to take ice out of cooler to make ice packs for injuries. Scoop is cleaned daily when in use and NOT stored in ice container.			
Single-use portions of antibiotics, salves and other ointments are removed from any larger dispensing unit prior to application. Any unused product is NOT returned to the original dispenser, but discarded.			
Students and staff with open, potentially contagious wounds are kept from participating in contact sports until wounds have healed. Students are prohibited from person to person contact until wounds have healed—even if wounds are covered. The same goes for children who have a fever, are coughing, sneezing, have flu like symptoms, or have a sore throat.			
Students with potential skin infections, high grade fever, or exhibit other signs of illness are referred to the nurse, physician or their own medical provider.			
Notes:			



# SpectraSan 24™

## Applications by Market

### Schools, Universities & Educational Facilities

<b>Basic Health Education and Hygiene Information for Students/Parents</b>			
	Exist	Followed	Needed
Students are encouraged to follow good hygiene practices, including frequent hand washing, showering immediately following each practice or competition, and <b>NOT</b> sharing drinking water bottles.			
Students are instructed to <b>NOT</b> share personal hygiene items (bar soap, towels, tooth brush, hair combs/brushes etc.) or topical ointments, antibiotics, and salves.			
Students are encouraged to promptly report abrasions, lacerations, skin infections, heat rash or skin irradiations, or signs of a respiratory or GI illness to a staff member, nurse, or the school nurse or Health & Safety Director.			
Students are encouraged <b>NOT</b> to shake hands or hug, and to avoid person-to-person contact as much as possible. Naturally, this is often times unavoidable; however, proper personal hygiene practices should follow such exchanges—especially during times of a virus break-out.			
Students should either launder towels daily or bring a fresh towel to use each day.			
Students are informed of infection control precautionary measures, such as the importance of hand washing, showering immediately after sports activities, and washing swim suits, towels, or special clothing after they are worn.			
<i>Notes:</i>			
Signature:		Date:	



# **SpectraSan 24™**

## **Applications by Market**

### **Schools, Universities & Educational Facilities**

#### **Helpful Application Hints**

There are a number of ways to properly disinfect a hard, non-porous surface so that it no longer represents a potential risk for the transmission of communicable and pathogenic diseases. Those assigned the responsibility of disinfecting hard surfaces in a given facility need to remember that a little common sense goes a long way.

First, make sure the surface has been properly cleaned and rinsed before using **SpectraSan 24** or any other disinfectant. The silver dihydrogen citrate molecule contained in **SpectraSan 24** needs to pierce the cell wall of the microorganism, work its way into the intercellular wall of the organism in an effort to disrupt and destroy the microorganism's DNA. In order to accomplish this, the SDC molecule cannot spend all of its energy trying to fight its way through layers of dirt, grease, grime, scum, and other contaminants. Therefore, remember rule # 1. Always clean the surface *before* applying **SpectraSan 24** or any other disinfectant and/or sanitizer.

A little **SpectraSan 24** goes a long way. Using more product is not better, in fact, it can actually lead to more problems. One 32 oz bottle of **SpectraSan 24** will cover approximately 900-1000 square feet and fogging or misting **SpectraSan 24** through a Fogmaster unit (depending on the micron/misting setting) will yield nearly 2000-4000 square feet of coverage for the same 32 ounces of **SpectraSan 24**.

Remember to mist a very light coating of **SpectraSan 24** on the surface being disinfected. Allow 2 minutes of contact or dwell time and then wipe with a microfiber cloth. If the surface you have treated is tacky or sticky, chances are - you used too much product or did not sufficiently wipe the surface after the 2 minutes.

#### **Why wait 2 minutes?**

**SpectraSan 24** kills many germs 20 times faster than traditional disinfectants. Traditional disinfectants **MUST** remain wet on the surface for anywhere from 5-10 minutes to kill the germs. Unfortunately, most liquid sanitizers and disinfectants evaporate within 2-3 minutes. Read the product label, if the instructions say the surface must remain wet for 5-10 minutes, but it dries sooner, the surface is not disinfected and product **MUST** be reapplied. **SpectraSan 24** kills many germs in anywhere from 30 seconds to 2 minutes.

#### **Why Use a Microfiber Cloth?**

Microfiber cloths are more versatile to use than cotton material and blends. You can use a microfiber cloth dry for dusting or polishing. Use damp/wet (*just a little water needed*) for cleaning mirrors, windows, counters, stovetops etc. Use the cloth to remove dust, stains, spots, grease, fingerprints, odor causing bacteria and much more! It is especially good to use for disinfecting hard surfaces because you actually need less product to achieve efficacious results and, unlike cotton materials or



# **SpectraSan 24™**

## **Applications by Market**

### **Schools, Universities & Educational Facilities**

100% polyester blends, a microfiber cloth does not leave behind pills, strands, and cotton residue that can act as harborage points for bacteria and germs.

#### **What is Microfiber made of?**

Microfiber is a blend of polyester and polyamide. It is constructed in a blend of either 80/20 or 70/30 ratio of polyester/polyamideams.

#### **Where can I use them?**

You can use microfiber cloths anywhere! Kitchens, bathrooms, cars, windows, mirrors, counters, eye glasses, sinks, showers, furniture, TVs, Bathtubs and tables. The list of uses is endless. They are safe for virtually every surface and will never scratch or harm anything you use them on.

#### **What surfaces are safe for using Microfiber Cloths?**

Microfiber cloths are safe for virtually every surface and will never scratch or harm anything you use them on. Use on tile, linoleum, glass, wood, ceramic, marble, granite, plastic, vinyl, leather, and much more.

#### **Can I use a Chemical Cleaner or Disinfectant with Microfiber Cloths?**

Microfiber cloths remove 98-99% of all dirt (not bacteria) with just water. However, they are ideal for use when sanitizing and disinfecting hard surfaces because they do a more effective job, require less product, remain clean longer, and do not inhibit the disinfection qualities of the product.

#### **How do I clean my Microfiber Cloths?**

Wash with warm, soapy water and rinse well. The warm water opens up the microfibers, allowing them to release the locked in dirt. You may also put the cloths in the washing machine and then dry them in the dryer on low. **DO NOT USE** fabric softeners of any kind as the chemicals clog the microfibers, making them less effective. **DO NOT USE** bleach either because it corrodes the fibers over time, making them less effective. **DO NOT IRON**. The typical microfiber cloth can be laundered up to 500 times before needing to be replaced, which makes them extremely economical to use.



# **SpectraSan 24™**

## **Applications by Market**

### **Schools, Universities & Educational Facilities**

## **Maximizing the Effectiveness of SpectraSan 24**

### **A Clean Surface**

Soil can chemically deactivate a disinfectant as well as physically protect the microbial cell from direct contact with the product. The surface must be cleaned and thoroughly rinsed – made free of soil and residual detergent – which could also chemically deactivate the disinfectant.

### **Intimate Contact**

In order for SpectraSan 24 to be effective, it must come into direct contact with the cell wall of the organism. Harborages such as pits, crevices, and cracks as well as soil residue can prevent this intimate contact from occurring.

### **Contact Time is an Important Factor**

Cover the surface so that it is wet. Normally, the longer the dwell time, the more effective the kill. Please remember though, that dead is dead. If we recommend a 2 minute contact time, waiting 15 minutes is not going to make the organism any more dead than it already is after 2 minutes.

### **Type of Microorganisms**

It is important to remember that not all sanitizers and disinfectants are equally effective against the same microorganisms. Interestingly, cells in the spore or biofilm state are much more resistant than cells in the vegetative and freely suspended state. It is essential to know what you are fighting and understand that not all germicides are broad spectrum. **SpectraSan 24**, for example, requires 30 seconds to kill most standard indicator bacterium and 2 minutes to kill MRSA, and VRE, 3 minutes to kill Rhinovirus and SARS, and only 1 minute to kill H1N1 (Swine Flu). Many disinfectants and sanitizers currently used in the market require 10-minutes to kill the aforementioned pathogens. When in doubt, read the label. The EPA requires all kill claims to be clearly visible on the product label. A simple rule to remember is, “Facts are facts – if it’s not on the label, it’s not a fact!”

