



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 29, 2021

Megan Polos  
Agent  
Microban Products Company  
11400 Vanstory Drive  
Huntersville, NC 28078

Subject: PRIA Label Amendment – Acceptable Addition of SARS-CoV-2  
Product Name: Firebird F130  
EPA Registration Number: 42182-9  
Application Date: 10/30/2020  
Action Case Number: 00217257

Dear Ms. Polos:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6), you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Alex Horansky by phone at 703-347-0128, or via email at [Horansky.alex@epa.gov](mailto:Horansky.alex@epa.gov).

Sincerely,



John Hebert, Chief  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

# Firebird F130

[Hospital][Disinfectant][24 Hour Residual Disinfectant][Soft Surface spot Sanitizer][Hard Surface Mildewstat][Fabric Mildewstat][Cleaner][and][Deodorizer]

KEEP OUT OF REACH OF CHILDREN

### WARNING

See [back][side][panel] for First Aid statements

#### Active Ingredients:

Alkyl dimethyl benzyl ammonium chloride (50% <sub>C14</sub> , 40% <sub>C12</sub> , 10% <sub>C16</sub> ).....	0.276%
Didecyl dimethyl ammonium chloride.....	0.104%
Octyl decyl dimethyl ammonium chloride.....	0.207%
Diocetyl dimethyl ammonium chloride .....	0.104%
Ethanol.....	68.610%
Other ingredients.....	30.699%
<hr/>	
Total: .....	100.000%

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EPA Est. No.: {insert appropriate EPA Est. No}  
[Lot code designates actual Est.]

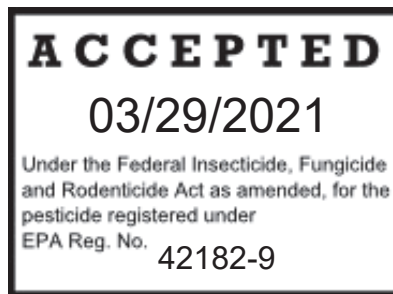
[Manufactured][Distributed][Sold] [by][for]:

Microban Products Company  
11400 Vanstory Drive  
Huntersville, NC 28078

[Made in [USA] [with domestic and imported materials] [*insert country*]]

Net contents: {Actual contents will be inserted on container label}

XX FL OZ. [(XX mL)]



[Bracketed text] is optional; text in {braces} is informational to the reviewer.

## PRECAUTIONARY STATEMENTS: Hazards to Humans and Domestic Animals

**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**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 the first 5 minutes, then continue rinsing. Call 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 or going for treatment. [For general information on product use, call the National Pesticides Information Center at 1-800-858-7378.] [For emergencies, call the poison control center 1-800-222-1222.] **[EMERGENCY PHONE (24 Hours):** 1-800-535-5053 or 1-352-323-3500.]

**Physical or Chemical Hazards:** Combustible. Do not use or store near heat or open flame.

{For containers larger than 5 gallons, the following statement will be used}

### Environmental Hazards

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 discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all directions and precautions on this product label.

[Can be used on] [For use on] {*Insert hard non-porous surfaces from Table 1 and/or 3*} [and many similar household surfaces.]

[For best [aesthetics][appearance][ results]]Use with a microfiber cloth [not for use with paper]

[May streak on mirrors and glass]. [For other surfaces, test in an inconspicuous area.] [Test on an inconspicuous area for colorfastness.]

Safe for use on [these] surface materials:

[plastic], [upholstery], [painted wood], [sealed wood] [painted surfaces], [washable fabric], [vinyl], [leather], [stainless steel], [aluminum], [glazed porcelain], [glazed ceramic] {or insert surface material from Table 1}

[To Refill [Trigger sprayer][Bottle]]: Remove trigger sprayer. Pour in product from refill container and replace trigger.

{Sanitizing Directions}

Hold container 6"-8" from surface and spray until thoroughly wet.

To Sanitize Hard Non-porous surfaces: Allow surface to remain visibly wet for 10 seconds. Wipe clean with a [damp] cloth [or sponge] [or paper towel]. Pre-clean visibly soiled surfaces. [Kills [effective against] [99.9% of] {*Insert non-food contact sanitization bacteria from Table C*}.]

To spot Sanitize Soft [Fabric] surfaces: Allow surface to remain visibly wet for for 10 seconds. Let air dry. [For difficult odors, repeat application] Pre-clean visibly soiled surfaces. [Kills [effective against] [99.9% of] {*Insert soft surface sanitization bacteria from Table D*}.]

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

[Disinfecting Directions]

TO DISINFECT Hard, non-porous surfaces: Hold container 6"-8" from surface and spray until thoroughly wet.

{or}  
TO DISINFECT Hard, non-porous surfaces: Hold container 6"-8" from surface and spray. Ensure even coverage and thorough wetness.

{one of the following statements will be used, with only the corresponding organisms listed on container label based on contact time}

[Bacteria, [yeast] and Cold and Flu Viruses<sup>6</sup>:] Allow surface to remain visibly wet [for] 60 seconds [-or- 1 minute]  
{or}

[Bacteria, Enveloped viruses, [Rotavirus,] [Fungi,] [Yeast,] [and Mold and Mildew] [Mycobacteria (TB)]:] Allow surface to remain visibly wet [for] 3 minutes.

{or}  
[Bacteria, Viruses<sup>7</sup>, [Mycobacteria (TB)] [and] Fungi, [Yeast,] [and mold & mildew]:] Allow surface to remain visibly wet [for] 5 minutes.

{in conjunction with:}

[Wipe with a lint free microfiber cleaning cloth] [to avoid lint or paper towel residue]. Pre-clean visibly soiled surfaces. [Kills] [effective against] [99.9% of] {Insert appropriate organisms from Table A based on 1, 3, or 5 minute contact time.}

[And][/][Or]

[Residual Disinfection [-or-Continuous Disinfection Directions]

For Residual Disinfection [-or-Continuous Disinfection] on hard non-porous surfaces for 24 Hours: Hold container 6"-8" from surface and spray. Ensure [even][uniform] coverage [distribution] and thorough wetness. Ensure surface remains wet for 1 [one] minute to disinfect against the organisms in Table B [or Residual Disinfection [Continuous Disinfection] table]. Allow the surface to air dry for continuously active disinfection up to 24 hours [with multiple touches].

Pre-clean visibly soiled surfaces. [Kills 99.999% of][Effective Against] [bacteria] {insert bacteria from Table B}  
[Provides residual disinfecting activity for up to 24 hours.]

[Product [residue] can be removed by soap and water [or by re-application of the product].] [Periodic cleaning with soap and water is optional.]

Use of this product [for Residual Disinfection [-or- Continuous Disinfection]] should not alter standard cleaning and disinfection practices. If the treated surface is cleaned, reapplication of [this] product is necessary for Residual Disinfection [-or- Continuous Disinfection].

{The following Special Instructions will only appear on final labels listing HBV, HCV, or HIV}

This product kills HBV, HCV, and HIV on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Hepatitis B Virus (HBV), Human Hepatitis C Virus (HCV), and Human Immunodeficiency Virus (HIV).

Special instructions for using this product to clean and decontaminate against HBV and HCV on surfaces/objects soiled with blood/body fluids:

Personal Protection: When handling items soiled with blood or body fluids, use disposable impervious gloves, gowns, masks and eye coverings.

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.

Contact Time: Allow surfaces to remain wet for 10 sec[onds], [rinse and] let air dry. For all other organisms, see directions for contact times.

Disposal of Infectious Materials: Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

{Mildew Fungistatic Directions}

TO PREVENT MOLD [AND MILDEW] [growth]:

[Fabric[Soft Surface] Mildewstat] On [cotton and polyester [nonwoven]] Fabrics:

[To inhibit mold and mildew growth]: Apply to fabric surface until wet [do not saturate]. Allow to air dry.

Repeat [application] every 7 days to inhibit mold [and mildew] growth. [Effective against *Aspergillus brasiliensis* [mildew] and *Penicillium variable*.] Pre-clean visibly soiled surfaces.

[Hard Surface Mildewstat] On hard surfaces:

[To inhibit mold and mildew growth]: Thoroughly wet surface. Allow to air dry. Repeat [application] every 7 days to inhibit mold [and mildew] growth. [Effective against *Aspergillus brasiliensis* [mildew]] Pre-clean visibly soiled surfaces.

{Storage and Disposal}

{For spray bottles intended to be refilled by end-user}

**STORAGE AND DISPOSAL:** Do Not Contaminate Water, Food, or Feed by Storage and Disposal.

**STORAGE:** Store out of reach of children or persons unfamiliar with its use. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. **CONTAINER HANDLING:** Do not reuse or refill except as described in the directions for use. [If not refilling,] place in trash or offer for recycling if available.

{For bottles used to refill trigger sprayer or a Nonrefillable container}

**STORAGE AND DISPOSAL:** Do Not Contaminate Water, Food, or Feed by Storage and Disposal.

**STORAGE:** Store out of reach of children and persons unfamiliar with its use. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. **CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

{NOTE: Any claim may appear on either FRONT or BACK panel in bullet or paragraph format}

### {Packaging Related Claims}

- [Reduces] [packaging] waste [by X%] (when compared to regular canister or bucket or pail)
- Buy 1 Get 1 Free
- [(Bonus x%) [Bonus x fl. oz.] [X% More Free] [X fl. oz. Free]
- Packaging made with [x%] recycled plastic
- Bonus/X% More Free: [10%] [15%] [20%] [25%] [30%] More fl. ounces per bottle
- Refill Size: fills trigger sprayer 3 times
- Recyclable bottle

### {Marketing Claims}

- Now -and/or- New [!] and -or- & Improved [!] {To be used as a claim descriptor only for the first 6 months on shelf}
- [New] [New & Improved]
- Meets surface disinfection recommendations from OSHA blood-borne pathogens[BBP] standard
- Dual action
- No mixing, measuring, [or rinsing] required
- Ready to Use
- No need to dilute
- Non-abrasive formula
- Contains no phosphates
- Phosphate free
- [Microban®] – [Antimicrobial solutions] used by hospitals [doctors] [for over 30 years.]
- Used by hospitals [doctors] Used in hospitals. Approved [for use] in hospitals [by][doctors] [for over 30 years]
- Powered by Microban [antimicrobial] [technology]
- Saves [money][time][labor]
- Bleach free
- Chlorine free
- Manufactured in the US
- Developed in the US
- Smart cleaning product [cleaner]
- Removes and renews [regenerates][rejuvenates][refreshes]
- No accumulation [build up]
- Does not contain heavy metals
- Triclosan free
- BPA free
- Phthalates[plasticizer] free
- To be used in {insert site from Table 3}
- Will not corrode surfaces {or insert use surface from Table 3}
- Easy to use
- Convenient
- For daily use
- Versatile
- [Based on][Powered by] [Microban [antimicrobial] technology]
- Bleach-free formula [Does not contain bleach]
- [Does not include nonylphenol ethoxylates] [Does not include alkylphenol ethoxylates]
- No mixing

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- No measuring
- [Sample]
- [Portable]
- [Requires no mixing or measuring and is ready-to-use]
- Cleans as it disinfects

{The following may be used on market labels for six months after introduction to market or applicable updates:}

- [long lasting] [24 hour][continuous][residual] [disinfectant] [for] [healthcare]
- [Breakthrough][Innovative][Revolutionary][disinfectant][disinfecting] [technology][approach] [method] [process] [solution] [ product]
- [Better] [Improved] [New] [!]
- [Better] [Improved] [New] [New and improved] [formula] [packaging] [New and improved]
- [New Claims] [New Kill Claims]
- [New Claims – Kills for 24 hours]
- [New - Saves Time]
- [New] [Residual][Persistent] Technology]
- [New] [& Improved]

#### **{Fragrance Claims}**

- No added [perfumes] [and] [or] [dyes]
- unscented
- Fresh smell
- No fragrance added
- Fragrance free

#### **{Cleaning and Deodorizing Claims}**

- [Multi-purpose cleaner]
- [Dual purpose][deodorizing][cleaning][disinfecting]
- Convenient, quick and easy cleaning all around [the office] [business] [workplace]
- [Eliminates odors]
- [Odor [elimination] [neutralization]
- Eliminates [tough] Odors
- Deodorizes [-and/or- disinfects -or- helps deodorize]
- Deodorizer
- Eliminates biological odors
- Eliminates foul smells and damp odors
- Eliminate[s] [incontinence] odors [from urine -and/or feces -and/or- vomit]
- Eliminates odors
- Eliminates odors at their source
- Eliminate odors without just masking them
- Eliminates [urinary -and/or- fecal] incontinence -or- biological –or tough odors [like urine, feces, and vomit] [quickly]
- For use on hard, non-porous surfaces -and/or- soft surfaces
- Formulated to neutralize urine -and/or feces -and/or- vomit [odors] [quickly]
- Formulated to neutralize tough -or- biological -or- [urinary -and/or fecal] [odors] [like urine -and/or feces -and/or- vomit] incontinence odors [like urine -and/or feces] [quickly]
- Leaves a pleasant fragrance
- Neutralizes odors [(doesn't [just] mask)]
- Odor eliminator



[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- Reduces -or- removes odors
- Removes -or- eliminates odors [quickly]
- [This effective product] eliminates odors at their source. [Does not just mask odors.]
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use site(s)]
- [This product] will deodorize hard, nonporous surfaces [including {insert surfaces or sites from Table 3}]
- Tough lingering odors are completely removed
- Deodorizer [for institutional use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Odor eliminator
- Removes -or- eliminates odors
- [This effective product] eliminates odors at their source. [Does not just mask odors.]
- [This product] deodorizes areas that are hard to keep fresh smelling, in the {insert use site} from Table 3}
- [This product] will deodorize hard, nonporous surfaces [including {insert surfaces or use sites from Table 3}]
- [Just][Simply][spray and wipe]

### **{Nonfood Contact Sanitizing Claims for Hard, Nonporous Surfaces}**

- [Rapid][Fast] [kill] [time][sanitization][Reduces][Removes][for] {insert organisms from Table C}
- [Sanitizer]
- Kills [99.9% of] bacteria in 10 seconds
- Kills [99.9% of] {insert organisms from Table C} in 10 seconds
- Eliminates -or- reduces [kitchen] odors [in the trash can –or-recycling bin odors -or- smells] [caused by bacteria]
- Eliminates Tough Odors
- Kills odor-causing bacteria
- Kills -or- eliminates bacteria that cause [bad] odors
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates pet odors caused by bacteria
- Kills odor-causing bacteria in the kitchen -or- bathroom
- Kills odor-causing bacteria
- Kills -or- eliminates bacteria that cause [bad] odors

### **{Disinfecting Claims}**

- An effective [Great][Appropriate][ideal][approach] [method] [process] [solution] [product][way] to [clean] [guard] [disinfect] [kill] [disinfect] [destroy 99.9%] [eliminate 99.9%] [against] [odor-causing] [bacteria] [germs] [norovirus] [viruses<sup>†</sup>] [cold & flu viruses<sup>§</sup>] [pathogens] [ESKAPE\*\* bacteria] [harmful] [fungus] [organisms][microorganisms] on hard, non-porous surfaces[fomite] listed on this label.
- [Suitable][Approved for] [To Use] [On Surfaces[fomites]] [On {insert item from Table 3}]
- [Cleans and] disinfects
- Virucidal<sup>†</sup>
- Bactericidal
- Fungicidal
- Tuberculocidal
- Perfect for disinfecting {insert use site}
- Leaves {insert item/use site from Table 3 } fresh and clean
- Leaves [bathroom] [{insert item/use site from Table 3}] [office] clean [and] [disinfected] [smelling fresh]
- [Great][Appropriate][ideal] for cleaning [and disinfecting] around [high touch areas]<sup>†</sup> [high traffic areas]<sup>†</sup> [the toilet] [and] [sink] [tub ] [On {insert item from Table 3}]
- 1 minute disinfectant<sup>†</sup> {will only be used on container label when listed organisms have contact times ≤1 min.}
- 3 minute disinfectant<sup>†</sup> {will only be used on container label when listed organisms have contact times ≤3 min.}

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- 5 minute disinfectant†
- [1 min[ute]][60 sec[ond]] [kill] [time][disinfection] for {insert organisms that are ≤1 minute contact time}†
- [ Easy] [and convenient] [way to clean] [and disinfect] {“easy” only to be used if “disinfect” is not used in claim}
- Easy way to clean [and disinfect] [bathroom] [or exterior toilet surfaces] [hard, non-porous surfaces]][fomites] [So] [surfaces are more than just clean,] [they're] [disinfected] {“easy” only to be used if “disinfect” is not used in claim}
- [Kills] [germs] [or bacteria] [that cause odor] [while it cleans]
- 3 minute kill time† (excluding norovirus and poliovirus)
- 3 minute contact time† (excluding norovirus and poliovirus)
- [Deactivates][Disinfectants][Kills] [cold & flu viruses<sup>s</sup> in 10 seconds]
- Germ fighting formula
- [Always] [ready-to-use]
- [kills all tested bacteria in 1 minute][kills bacteria in 1 minute]†
- An effective method to deodorize and disinfect against odor-causing organisms on hard non-porous surfaces
- An effective way to disinfect hard, non-porous environmental surfaces
- Antibacterial
- Antimicrobial
- Helps reduce[reduces] cross contamination on treated surfaces
- Kills [99.9% [of] germs
- Kills germs in 1 minute {*Note to reviewer: this claim will lead to a list of at least S. aureus, P. aeruginosa, and one or more enveloped virus*}
- Disinfectant
- [Easy][convenient][to use]
- Disinfect on the go†
- Can help reduce cross contamination on treated surfaces
- Clean and disinfect hard, non-porous surfaces
- [Use to] [Deodorize hard, non-porous surfaces] [Deodorizes, and kills common household germs]†
- Disinfect external surfaces of ultrasound transducers
- Disinfects headsets [and telephones]
- Compatible for use on hard non-porous surfaces commonly found in healthcare settings [listed on this label]
- [Disinfect surfaces] [Disinfects and deodorizes in 1 minute] {will only be used on container label when listed organisms have contact times ≤1 minute}
- Disinfects hard non-porous environmental surfaces listed on this label.
- [Use to]] [Disinfect against bacteria on hard, non-porous surfaces in 1 minute]
- Disinfects] hard non-porous surfaces [that people touch]
- [Disinfects {insert from List 3}] [Disinfects [in [just] five [5] minutes]
- [convenient] way to disinfect {insert use sites from Table 3}[high touch] hard, non-porous surfaces everyday
- Effective against the flu virus<sup>u†</sup>
- [Effective against[bathroom] bacteria and viruses†: [ESBL *E. coli*] [*Salmonella enterica*] [*Staphylococcus aureus*] [Herpes Simplex Virus Type 1] [Herpes Simplex Virus Type 2] [Hepatitis B Virus (HBV)] [Hepatitis C Virus (HCV)] [Avian Influenza A H3N2 Reassortant Virus] {insert organisms from list A}
- Effective daily cleaner
- Effectively disinfects against MRSA [Methicillin Resistant *Staphylococcus aureus*]†
- Effectively disinfects against Norovirus†
- [[convenient] [portable] way to disinfect hard non-porous surfaces]
- [cleaner and] disinfectant
- [Clean and disinfect in one step] [Saves Time]
- Kills ESKAPE\*\* pathogens[organisms][ in 1 min[ute]]†:{insert noted organisms from Table A}
- [Deactivates] [Disinfectants] [kills] bloodborne pathogens in 10 seconds
- Kills TB [(*Mycobacterium bovis* – BCG)]

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- For daily use
- For use in critical care areas [where control of cross contamination on surfaces is of prime importance]
- Helps reduce cross contamination on treated surfaces
- [Hospital [disinfectant] [disinfection] [use only when hospital use sites on label]
- Leaves [bathroom] [office]{insert use site from Table 3} disinfected [and smelling fresh]
- Odor [elimination] [neutralization] [One step cleaner and disinfectant]
- Perfect for disinfecting exterior toilet surfaces - or - around the exterior of toilet
- [Premixed] [Ready-to-Use] [Premeasured] [and convenient] way to disinfect]
- Reduces cross contamination on hard non-porous surfaces
- [Wipes out 99.9%] [Kills] [common] [household] [bacteria] [viruses<sup>†</sup>] [germs]<sup>†</sup>
- [Wipes out 99.9%] [Kills] [Eliminates 99.9%]: {Insert organisms from Table A} [in 1 minute] {"1 minute" to be used only if all organisms on container label have contact times ≤1 minute}
- [Wipes out 99.9%] [Kills] [the] flu virus<sup>‡</sup>
- [Wipes out 99.9%] [Kills] [viruses<sup>†</sup> and bacteria] including the flu virus<sup>‡</sup>
- Kills super bugs
- Peace of mind that you are eliminating 99.9% of germs
- Reduces cross contamination on treated surfaces
- Eliminates odors caused by bacteria
- Eliminates 99.9% of mold [and mildew] [odor[s]]
- Eliminates mold [and mildew] odors
- Kills cold and flu viruses<sup>§</sup> in 10 seconds
- Disinfects in [1][3][5] minutes<sup>†</sup> {appropriate claim will be used on container label based on which line of disinfection directions for use is used}
- <sup>¥</sup>Kills SARS-CoV-2 [Coronavirus] [the virus that causes COVID-19] [in 10 seconds] on hard, non-porous surfaces
- [Destroys] [Deactivates] SARS-CoV-2 [the virus that causes COVID-19] [in hospitals]<sup>¢</sup>
- Effective against SARS-CoV-2 [Coronavirus] [the virus that causes COVID-19] [in 10 seconds]<sup>¢</sup>
- Helps reduce the spread of SARS-CoV-2 [Coronavirus] [the virus that causes COVID-19]<sup>¢</sup> on treated, hard, nonporous surfaces
- Kills SARS-CoV-2 [Coronavirus] [the virus that causes COVID-19] [in 10 seconds]<sup>¢</sup>
- Proven efficacy against SARS-CoV-2 [Coronavirus] [the virus that causes COVID-19] [in 10 seconds]<sup>¢</sup>
- Wipes out 99.9% of SARS-CoV-2 [Coronavirus] [the virus that causes COVID-19] [in 10 seconds]<sup>¢</sup>

<sup>¢</sup>[on] hard, nonporous surfaces [of] [identified on this label]

#### **{24 Hour Residual Disinfection Claims}**

- [Breakthrough][Innovative][Revolutionary][disinfectant][disinfecting] [technology][[approach] [method] [process] [solution] [ product] that [is][provides]{insert any of the following bullet points from this section}
- *[Note: Upon following directions for use for Continuous Disinfection, disinfection occurs within 5 minutes following [a] contamination event [or several contamination events] [or touch] [or several touches] for up to 24 hours for organisms in table 4 post application.]*

{Any of the claims below may be used alone or in conjunction with the claim above}

- Disinfection that lasts all day<sup>†</sup>
- 24 hour persistence [against ESKAPE\*\* pathogens]<sup>†</sup>
- Persistent disinfection for [up to] 24 hours<sup>†</sup>
- Enduring disinfection for [up to] 24 hours<sup>†</sup>
- Hard nonporous surface persistence for [up to] 24 hours
- Designed for 24 hour disinfection against bacteria<sup>†</sup>
- Maintains a disinfected surface for 24 hours<sup>†</sup>

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- Protects hard non-porous surfaces from bacteria between each daily cleaning
- [Disinfects][Hygienic][Cleaner] between cleaning
- 24 hour residual disinfection† for {insert use site from Table 3}
- Reduce cross contamination[transmission] on [high touch] surfaces
- For 24 hour disinfection†
- [ongoing][non-stop][unabating][ Persistent][persisting][constant][sustained][long lasting][lasting][enduring][cleaning][disinfecting][persistence] for [up to] 24 hours†
- [ongoing][non-stop][unabating][ Persistent][persisting][sustained]Disinfectant] for [up to] 24 hours†
- [All day] 24 hour [hard non-porous surface protection] [night and day protection][Around the clock protection]
- lasts for 24 hrs†
- Continues to disinfect, even after the surface is dry,[giving peace of mind] for [up to] 24 hours
- [Kills all day long][Kills and keeps killing]†
- 24 hour [residual][continuous] [continuously active]surface disinfection against bacteria [ESKAPE\*\* pathogens]†
- [This product] Kills {insert one or more organisms from Table B} [ESKAPE\*\* pathogens] for 24 hours†
- [Persistent] antibacterial [disinfection] for [up to] 24 hours†
- This product] eliminates 99.9[9][99]% of bacteria {insert from Table B} for [up to] 24 hours†
- Disinfection that lasts all day†
- [When used as directed] [this product] provides residual disinfection from {insert organisms from Table B}for [up to] 24 hours after initial application†
- residual[healthcare] disinfection
- [Independent] External tests show this formulation is scientifically proven to kill 99.9[9][99]% of bacteria for 24 hours[even after multiple touches][normal wear and tear][up to 90[96] touches][normal daily use]†
- 24 hour disinfection of bacteria {insert bacteria from Table B}†
- [Designed for] 24 hour disinfection [against bacteria]†
- 
- 99.9[99]% reduction after [90][96] touches for 24 hours†
- Protects [-or- continuously disinfects] hard non-porous surfaces for up to 96 touches for [up to] 24 hours. A product that gives you peace of mind for 24 hours [hr] [residual disinfection against bacteria]
- [Kills] [disinfects] [eliminates] 99.9[99]% of bacteria for 24 hours [even after multiple touches][normal wear and tear][up to 90+ touches][normal daily use]†
- [This product] [kills][eliminates] 99.9% of bacteria, then continues to disinfect [kill 99.9[99]%] against [key][common][clinically important]organisms[pathogens] [ESKAPE pathogens] {insert from Table B} for [up to] 24 hours[hrs]†
- Maintains a disinfected surface for 24 hours
- Kills 99.9[99]% of bacteria {Insert organisms from Table B} for 24 hours†
- Residual self-disinfecting for 24 hours†
- Keeps [treated] surfaces disinfected longer to [reduce] [stop] the spread of bacteria
- Provides 24 hour residual antibacterial control [even after multiple touches]†
- [Disinfect] hard nonporous surfaces once a day to provide residual disinfection against bacteria
- Protects hard nonporous surfaces from bacteria between each daily cleaning [disinfecting] [with this product]
- Kills [99.9[99]%]bacteria between each daily cleaning†
- Ideal for use on [in] {insert use sites/surfaces from Table 3} to provide 24 hour [antibacterial] disinfection
- [Works longer than] [lasts longer than][[non-residual disinfectants]†
- [Unlike][Compare[d] with] ][non-residual {insert use site from Table 3}disinfectants] continues working[disinfecting][ for 24 hours][after 24 hours of touches][even when dry]†
- 24 hour sustained performance even on dry treated surfaces
- [Dry touch] [continuous][continuously active] disinfection for up to 24 hours [against ESKAPE\*\* pathogens]†

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- 24 hour Continuously active disinfection [against ESKAPE\*\* pathogens]†
- Effective for longer than non-residual disinfectants†
- Works longer t non-residual hospital[healthcare] disinfectants over 24 hours†
- Controls the spread of bacteria on treated surfaces for 24 hours
- Patented formula [providing residual disinfection for [up to] 24 hours]
- Provides invisible [coating][layer] that [fights][disinfects][bacteria]for 24 hours
- Invisible film [provides disinfection][disinfects][for] 24 hours
- 24 hour disinfection on treated surfaces
- Scientifically proven [to disinfect surfaces for 24 hours]
- [Now] kills ESKAPE\*\* pathogens for 24 hours†
- Continuously active disinfection against ESKAPE\*\* pathogens for [up to] 24 hours†

#### **{Soft Surface Sanitizer Spot Treatment}**

- An [effective][fast] soft surface sanitizer
- Great for use on soft surfaces such as [insert soft surface[s] from Table 2]
- Kills microorganisms on [hospital] soft surfaces -or- fabric -or- [insert soft surface(s) from Table 2]
- No precleaning required on visibly clean surfaces
- One-step cleaner and soft surface sanitizer
- [Removes] [Eliminates] odors by killing odor-causing bacteria on [soft surfaces] [fabrics] {insert soft surface[s] from Table 2}
- Sanitizes by killing [99.9% of] *Enterobacter aerogenes* and *Staphylococcus aureus* on soft surfaces in 10 sec[onds]
- Sanitizes fabric -or- soft surfaces -or- [insert soft surface(s) from Table 2]
- Sanitizes in one step
- Sanitizes soft surfaces [in 10 seconds][quickly][fast]
- [Rapid] Soft surface [-or- fabric] sanitizer
- Use on [couches] [chairs] [and other soft surfaces] [blinds] [curtains]
- A proven sanitizer on soft surfaces
- An effective soft surface sanitizer
- Great for use on soft surfaces such as {insert soft surfaces from Table 2}
- Kills microorganisms on soft surfaces [fabric] {insert soft surfaces} from Table 2}
- One-step cleaner sanitizer on soft surfaces
- Use on {insert soft surfaces from Table 2}
- Effective against 100% cotton and 100% polyester fabric

#### **{Fabric Mildewstat Claims}**

- Fabric Mildewstat[fungistat]
- Controls[Inhibits][Prevents] the growth of mold [and] [mildew] for [up to] 7 days on fabric
- Controls[Inhibits][Prevents] the growth of [fungi][fungus][fungal spores][mold spores][mold & mildew spores] [for [up to] 7 days on fabric]
- Controls[Inhibits][Prevents] the growth of mold [and] [mildew] for [up to] 7 days on {Insert item from Table 2}
- Controls [inhibits] [Prevents] [mold and] mildew growth [for 7 days]
- Protects Surfaces [from mildew] for 7 days\* \*soft surfaces

#### **{Hard Surface Mildewstat Claims}**

- Prevents [mold and mildew growth][for 7 days]
- Mildewstat[fungistat]
- Controls[Inhibits][Prevents] the growth of mold [and] [mildew] for [up to] 7 days on hard surfaces
- Controls[Inhibits][Prevents] the growth of [fungi][fungus][fungal spores][mold spores][mold & mildew spores] [for [up to] 7 days on hard [bathroom][or kitchen] [or household] surfaces

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

- Controls{Inhibits}[Prevents] the growth of mold [and] [mildew] for [up to] 7 days on {Insert items from Table 3}
- Inhibits growth of mold [& mildew] for 7 days
- Prevents [mold and mildew growth][for 7 days]

### {Emerging Viral Pathogen Claims}

This product qualifies for emerging viral pathogen claims per the EPA’s ‘Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels’ when used in accordance with the appropriate use directions indicated below.

This product meets the criteria to make claims against certain emerging viral pathogens from the following viral categories: • Enveloped viruses

- Large non-enveloped viruses
- Small non-enveloped viruses

<i>For an emerging viral pathogen that is a/an...</i>	<i>...follow the directions for use for the following organisms on the label:</i>
Enveloped virus	One of the following: Poliovirus type 1, ATCC VR-1562 Norovirus (Feline Calicivirus as surrogate), ATCC VR-782
Large, non-enveloped virus	One of the following: Poliovirus type 1, ATCC VR-1562 Norovirus (Feline Calicivirus as surrogate), ATCC VR-782
Small, non-enveloped virus	Poliovirus type 1, ATCC VR-1562 Norovirus (Feline Calicivirus as surrogate), ATCC VR-782

#### Acceptable Claim Language:

Firebird F130 has demonstrated effectiveness against viruses similar to **[name of emerging virus]** on hard, nonporous surfaces. Therefore, Firebird F130 can be used against **[name of emerging virus]** when used in accordance with the directions for use against **[name of supporting virus(es)]** on hard, nonporous surfaces. Refer to the **[CDC or OIE]** website at **[pathogen-specific website address]** for additional information.

**[Name of illness/outbreak]** is caused by **[name of emerging virus]**. Firebird F130 kills similar viruses and therefore can be used against **[name of emerging virus]** when used in accordance with the directions for use against **[name of supporting virus(es)]** on hard, nonporous surfaces. Refer to the **[CDC or OIE]** website at **[website address]** for additional information.

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

**{Terminal Sterilant Disclaimer per PR Notice 94-4}**

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.

**{For product labels with veterinary/farm/animal care use sites, the following statement will be used:}**

Use to disinfect and clean hard, nonporous surfaces such as feeding and watering equipment, cages, utensils, instruments, kennels, stables, catteries, etc. Remove all animals and feed from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings, and manure from walls, floors, and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering equipment. Pre-clean all surfaces with soap or detergent and rinse with water. Spray surface until completely wet and let stand for five (5) minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treated surfaces have been thoroughly rinsed with water and allowed to dry. Thoroughly scrub all treating, feeding, and watering appliances with soap or detergent, and rinse with potable water before re-use.

**{Optional Surface Materials:}**

{Table 1: Hard Non-porous nonfood contact Surface Types}

Acrylic	Aluminum	Brass	Chrome
Corian®	Copper	Crystal	Glass
Formica®	Glazed porcelain [tile]	Glazed ceramic [tile]	Sealed Fiberglass
Sealed Grout	Galvanized metal	Sealed granite	Sealed [or finished] hardwood [floors]
Laminated Surfaces	Laminate	Plastic laminate	Sealed Limestone
Linoleum	Metal	Mirrors	Sealed Marble
Nickel	Plastic	Plexiglass®	PEX(cross linked polyethylene)
PVC	Sealed Slate	Sealed stone	[Stainless] steel
Sealed Terra Cotta	Sealed Terrazzo	Glazed tile	Tin
Vinyl	Painted wallboard	Finished –and/or- Painted Wood	Sealed wood
Zinc			

{Table 2: Optional Soft Surface Spot Sanitizer and Fabric Mildewstat Use sites/surfaces}

Back packs	Bath[room] mat	Cotton fabrics	Chairs
[Clothing]	Mats	Exercise mats	Cloth shower curtain
Curtains	Cotton/polyester blend fabrics and textiles	Laundry bag	Diaper bag
Drapes	Stroller [seat]	Privacy drapes	Gym bags
Linens	Towels	Shades	Lab coats
Polyester fabrics	Window treatments	Scrub suits	Mattress cover
Sport equipment lining	Sports bags	textiles	

**{Optional Use Sites:}**

{Table 3: Hard, nonporous Use Sites/Surfaces} {May also includes graphic(s) depicting use site}

Bathroom	Dining room	Mud room	Kitchen <sup>Δ</sup>
Bedroom	Home[House]	Nursery	Garage
High-touch areas	Powder room	Basement	Living room
Acute Care Institutions	Bathroom Fixtures	Hotel Rooms	Assisted Living Facilities

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

Bathtubs	Campers	Cruise ship [surfaces] [equipment] [s]	Cruise ship surfaces
Airports	Bed [Frames] [railings]	Campground Cars	Curing Lights
Vanity top	Bed pans	Alternate Care Institutions	CAT Scan [equipment] [rooms]
Ambulance[s] [equipment] [surfaces]	Benches	Anesthesia rooms	Cutting Tools
blood glucose meters	bladder scan equipment	[Cardiac] [gym] equipment	defibrillators
Blood banks	Carts	Central Service Areas	Day Care Centers
Cervical collars	Blinds	Central Supply Rooms	Delivery Trucks
Animal Care Facilities	Dental [Chairs] [offices] [operatory rooms]	Clean rooms	Clinics
dental unit instrument trays	dopplers	infant incubators [interior and exterior surfaces of]	infant warmers [interior and exterior surfaces of]
apex locators	gurneys	[Tympenic] [Electronic] thermometers	endodontic equipment
Animal Equipment	Dialysis [Centers] [machines][clinics]	Chairs	Nurse call [button] [device]
Animal Hospitals	Boats	Changing Tables – or- Areas	Emergency vehicles
Animal Labs	Commercial Building	Hotels	Department Stores
Animal Life Science Laboratories	Bowling Alleys	Acute care institutions	Desks
Auto Repair Centers	Hospital[s] [beds]	Medical offices	Desktops
Automatic Teller Machine (ATM)	Breeding and Grooming Establishments	Computer Manufacturing Sites	Barges
Automatic Feeders	[Nylon][Hair] Brushes	Coated Mattresses	EMS & Fire Facilities
Banks	Buckets	Coated Pillows	Diaper Pails
Barber/Beauty Shops	Buses	Combs	Elder Care Centers
Bars	Newborn Nurseries	Computer keyboards	Dispensing & Filling Equipment
Basements and crawl spaces	Medical Research Facilities	Clippers	Dog/Cat Animal Kennels
Dressing Carts	Isolation [Areas] [wards]	Computer peripheral[s]	[Door] [Cabinet] [Appliance] Knobs [Frames]
Dressing Rooms	Bathroom [Counter] tops	Cabinet[s] [Cupboard[s]] [Handles]	Neonatal units
Drinking Fountains (nonfood contact areas)	Countertops <sup>Δ</sup>	Convenience Stores	IV [Poles][pumps]
isolettes	laboratory equipment and surfaces	loupes	operating room tables and lights
Ophthalmoscopes	Otoscopes	oxygen hoods	physical therapy (PT) equipment surfaces
Drone[s][peripherals] [equipment]	Drawer Pulls	Conveyer Belt (non-food contact)	Drain Boards
patient lift equipment	pulse oximeter	stethoscopes	telemetry equipment
telephones	Exteriors of amalgamators	Exteriors of dental curing lights	Exteriors of anesthesia machines
Exteriors of respiratory therapy equipment	Exteriors of apheresis machines	Exteriors of diagnostic equipment	Exteriors of dialysis machines



[Bracketed text] is optional; text in {braces} is informational to the reviewer.

Exteriors of patient monitoring equipment	Exteriors of patient support and delivery equipment	Exteriors of pulp testers and motors	
Operating Room[s] [lights] [surfaces][tables]	Folding Tables	Hard, nonporous surfaces	Massage/Facial Salons
Ultrasonic Baths	Plastic surfaces	Appliance exteriors	Neck Braces
Ophthalmic/ Optometric facilities	Life Care Retirement Communities	Tweezers	Polyurethane keyboard covers
Recovery Room	Food Processing Plants (nonfood contact areas)	Exam [rooms] [tables]	Examination [rooms] [tables]
Respiratory Therapy centers	Food Storage Areas	Household and Automotive Garages	Mobile Homes
[Empty] Diaper Pails	Government facilities[spaces]	Housekeeping & Janitorial Rooms	Movie Houses
Grocery Carts and Stores	Footboards	Ultrasound [transducers] [and] [probes][monitors]	External surfaces of medical equipment
Equine Farms	Orthopedic Clinics	Light fixture[s]	Museums
[Surgery] [Operating] [OR] Rooms	Garbage Cans	Radiology [rooms] [equipment]	External surfaces of respiratory equipment
Polyvinyl splash aprons	Gift Shops	Mammography equipment	Hospices
Exercise Machines	Glass	Kennel Runs	Oxygen hoods
Hair/Nail/Pedicure Salons	Vet Offices or Hospitals	Kennels	Phlebotomy trays
Hair Clippers	Greenhouses	Kindergarten classrooms	Physician Offices
Finished Baseboard	Grill exteriors	Labs	Nurseries
Office[s] [Building[s]] [Equipment]	Physical therapy [rooms] [areas]	Large inflatable, non-porous plastic and rubber structures	Surgical Centers
Exterior Surfaces of Air Vents or Air Vent Exteriors	X-ray [labs] [tables] [equipment]	Laundries	Obstacle Course Play and Exercise Equipment
Manicure/ pedicure tools	Razor[s] [Trimmer] [Blades]	Vet or Veterinary Clinic Surfaces	Livestock[pork][poultry] [beef][ostrich][bison][emu] Premises
Traction Devices	Headboards	Flower Pots	
Fire Trucks	Health Clubs	Lifts	Oxygen Hoods
Flats	Sinks	Slides	Exterior surfaces of Urinals
Feed Racks	Helicopters	Litter boxes	Vanities
Public Spaces	Home Health Care	Locker Rooms	Outdoor Areas and Furniture
Photocopy Centers	Handrails	Slit Lamps	Libraries
Patio furniture	Reception Counters or Desks or Areas	Soap dispensers	Veterinary Clinics
Pedicure Basins	Recreational sporting [snow][water] equipment	Solar energy equipment[panel]	Veterinary Offices
Pens	Pet Shops	Spas	Video Stores
Performance/ Theater Centers	Recreational Facilities	Spine Backboards	Walkways
Pet Animal Quarters	Recycling Bins and Centers	Spittoons	Walls
Playpens	Shopping Malls	Sports Arenas	Washable Nail Files
Sports Complexes	Washable Walls	Stalls	Washing Areas
[Unit] Stools	Restrooms	Plumbing Fixtures	Washing machines
Trains	Restroom Fixtures	Storage areas	Watercraft

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

Exterior Toilet Bowl Surfaces	Retail and Wholesale Establishments	Stovetops	Wheelchairs
Piano keys	Robot[s]	Stretchers	High Touch Surfaces
Picnic Facilities	RV's	Strollers	Zoos
Pipeless Foot Spas	Satellite[s]	Supermarkets	Tools
Pipes	Salons	Tables	Touch Screen[s]
Plastic Rollers	Scales	Tack Shops	Windowsills
Playground Equipment	Schools	Surfaces of Tank Trucks	Work Areas
Playroom	Scissors	Surfaces of Tankers	Post Offices
Police Cars	Ships	Counter[top]s	Troughs
Portable and Chemical Toilets and Latrine Buckets	Recycled materials [polymers][textiles][fibers]	Trash [Barrels][Cans][Containers]	[Toilet] [Urinal] Exterior[s] [Surfaces]
Preschools	Steps	Taverns	Toy Factories
Mobile Homes	Trucks	Tires	Toilet [Seats]
TV Remote Controls	Trailers	Taxis	Refrigerator exteriors
Shower [Curtains] [doors] [stalls]	Exterior surfaces of Toilets	Telephone[s] [Booths] [Cradles]	Tanning [Beds] [equipment] [salons] [spas]
Ambulances	Ambulatory Surgical Centers (ASC)	CAT [scan] Labs	Central Supply
Critical Care Unit (CCU)	Doctors' Offices	Donation Centers [blood][plasma][semen][milk] [apheresis]	Emergency Medical Settings
Emergency Rooms (E.R.)	Emergency Vehicles	Eye Surgical Centers	Health Care Facilities
Home Health Care	Hospitals	Intensive Care Units (ICU)	Laundry Rooms
Long Term Care Centers	Neonatal Intensive Care Units (NICU)	Newborn nursery	Nursing homes
Operating Rooms (OR)	Ophthalmic Offices	Orthopedics	Out-Patient Surgical Centers (OPSC)
Patient Care Areas	Pediatrics	Pediatric Intensive Care Units (PICU)	Physical therapy
Physician's offices	Rehabilitation	Respiratory therapy	Skilled Nursing Facility
Surgery [rooms]	Surgery Intensive Care Unit (SICU)	Surgical Centers	Transport vehicles
X-Ray [rooms][equipment]			

{Table A: List of Disinfection Organisms}

**Disinfection**

Contact Time	Bacteria	Identification Number	Antibiotic Resistance demonstrated
1 min[ute]	[**] <i>Acinetobacter baumannii</i> MDR (Multi-drug resistant)	[ATCC BAA-1605]	[Ceftadizime, Gentamicin, Ticarcillin, Piperacillin, Cefepime, Ciprofloxacin, Imipenem, Meropenem]
	[**] <i>Enterobacter aerogenes</i>	[ATCC 13048]	
	<i>Escherichia coli</i> ESBL (Extended spectrum beta-lactamase)	[ATCC BAA-196]	[Ceftadizime, Cefotaxime]
	<i>Escherichia coli</i> O157:H7	[ATCC 35150]	

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

	[**]Enterobacter aerogenes MDR (Multi-drug Resistant)	[ATCC 29751]	[Cefazolin, Ampicillin, Ampicillin/Sulbactam]
	[**]Enterococcus faecalis VRE (Vancomycin resistant enterococcus)	[ATCC 51575]	[Vancomycin]
	[**]Enterococcus faecium MDR (Multi-drug Resistant)	[ATCC 51559]	[Ampicillin, Penicillin, Vancomycin, Gentamicin, Cefazolin]
	[**]Klebsiella pneumoniae CRE (Carbapenem resistant Enterobacteriaceae)	[ATCC BAA-2146]	[Imipenem, Meropenem]
	[**]Pseudomonas aeruginosa	[ATCC 15442]	
	[**]Pseudomonas aeruginosa MBL (Metallo beta-lactamase positive)	[CDC AR-0246/PSA-18]	[Imipenem]
	Salmonella enterica	[ATCC 10708]	
	Staphylococcus aureus	[ATCC 6538]	
	[**]Staphylococcus aureus (Methicillin Resistant) (MRSA)	[ATCC 33592]	[Methicillin]
	Staphylococcus epidermidis (Methicillin Resistant) (MRSE)	[ATCC 51625]	[Methicillin]
	Staphylococcus aureus (VISA) (Vancomycin-Intermediate)	[HIP5836]	[Vancomycin]
	Staphylococcus aureus (VRSA) (Vancomycin-Resistant)	[HIP11714]	[Vancomycin]
	<b>Yeast</b>		
1 min[ute]	Candida albicans	[ATCC 10231]	
	<b>Fungi</b>		
3 min[utes]	Aspergillus niger	[ATCC 6275]	
	Trichophyton interdigitale	[ATCC 9533]	
	<b>Enveloped Viruses</b>	<b>Reference No.</b>	<b>Strain Information</b>
10 sec[onds]	<sup>‡</sup> Hepatitis B Virus (HBV) (Duck Hepatitis B Virus [as surrogate])		[11/4/12]
	<sup>‡</sup> Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus [as surrogate])		[Oregon C24v-genotype 1]
	<sup>‡</sup> Herpes simplex virus type 1	[ATCC VR-733]	[F(1)]
	<sup>‡</sup> Herpes simplex virus type 2	[ATCC VR-734]	[G]
	<sup>‡</sup> Human Coronavirus <sup>§</sup>	[ATCC VR-740]	[229E]
	<sup>‡</sup> Human Immunodeficiency virus type 1 (HIV)		[HTLV-III <sub>B</sub> ]
	<sup>‡</sup> Avian Influenza A (H3N2) Reassortant virus <sup>§,μ</sup>	[ATCC VR-2072]	[A/Washington/897/80 x A/Mallard/New York/6750/78]
	<sup>‡</sup> 2009-H1N1 Influenza A virus <sup>§,μ</sup> [(Novel H1N1)]	[CDC 2009712192]	[A/Mexico/4108/2009]
	<sup>‡</sup> Respiratory syncytial virus (RSV) <sup>§</sup>	[ATCC VR-26]	[Long]
	<sup>‡</sup> SARS-Related Coronavirus 2 [SARS-CoV-2]	[Strain USA-WA1/2020]	[BEI NR-52281]
	<b>Large Non-enveloped Viruses</b>		
2 min[utes]	<sup>‡</sup> Rotavirus	[ATCC VR-2018]	[WA]
	<b>Small Non-enveloped Viruses</b>		

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

5 min[utes]	‡Poliovirus type 1	[ATCC VR-1562]	[Chat]
	‡Norovirus (Feline Calicivirus as surrogate)	[ATCC VR-782]	[F-9]
	<b>Mycobacteria</b>		
3 min[utes]	<i>Mycobacterium bovis</i> – BCG [(TB)] (68.2°F)[20.1°C]		

{Table B: List of Residual Disinfection[Continuous Disinfection] Organisms}

**Residual Disinfection [Continuous Disinfection]**

{Note:} Upon following directions for use for Residual Disinfection [or Continuous Disinfection], disinfection occurs within 5 minutes following [a] contamination event [or several contamination events] [or touch] [or several touches] for [up to] 24 hours [post application] for organisms in this table.

	<b>Bacteria</b>	<b>Identification Number</b>	<b>Antibiotic Resistance demonstrated</b>
	[**] <i>Acinetobacter baumannii</i> MDR (Multi-drug resistant)	[ATCC BAA-1605]	[Ampicillin/Sulbactam, Cefepime, Cefazolin, Ceftazidime, Ceftriaxone, Ciprofloxacin, Gentamicin, Levofloxacin, Piperacillin/Tazo, Trimethoprim/Sulfa, Meropenem]
	[**] <i>Enterobacter aerogenes</i>	[ATCC 13048]	
	[**] <i>Enterobacter aerogenes</i> MDR (Multi-drug Resistant)	[ATCC 29751]	[Cefazolin, Ceftriaxone]
	[**] <i>Enterococcus faecalis</i> VRE (Vancomycin resistant enterococcus)	[ATCC 51575]	[Vancomycin]
	[**] <i>Enterococcus faecium</i> MDR (Multi-drug Resistant)	[ATCC 51559]	[Ampicillin, Penicillin, Vancomycin, Gentamicin]
	[**]New Delhi Metallo-beta-lactamase-1 (NDM-1) producing <i>Klebsiella pneumoniae</i> (CRE - Carbapenem resistant Enterobacteriaceae)	[ATCC BAA-2146]	[Amikacin, Ampicillin, Ampicillin/Sulbactam, Cefazolin, Cefepime, Ceftazidime, Ceftriaxone, Ciprofloxacin, Gentamicin, Imipenem, Levofloxacin, Piperacillin/Tazo, Tobramycin, Trimethoprim/Sulfa, Meropenem, Ertapenem]
	[**] <i>Pseudomonas aeruginosa</i>	[ATCC 15442]	
	<i>Staphylococcus aureus</i>	[ATCC 6538]	
	[**] <i>Staphylococcus aureus</i> - (Methicillin Resistant) (MRSA)	[ATCC 33592]	[Methicillin]

{Table C: List of Nonfood Contact Surface Sanitization Organisms}

**Hard, Nonporous Non-food Contact Surface Sanitization**

<b>Contact Time</b>	<b>Bacteria</b>	<b>Identification Number</b>
10 sec[onds]	<i>Enterobacter aerogenes</i>	[ATCC 13048]
	<i>Staphylococcus aureus</i>	[ATCC 6538]

{Table D: List of Soft Surface Sanitization Organisms}

**Soft Surface Spot Sanitization**

<b>Contact Time</b>	<b>Bacteria</b>	<b>Identification Number</b>
10 sec[onds]	<i>Enterobacter aerogenes</i>	[ATCC 13048]
	<i>Staphylococcus aureus</i>	[ATCC 6538]

[Bracketed text] is optional; text in {braces} is informational to the reviewer.

{Table E: List of Mildew Fungistatic Organisms}

Mildew Fungistat			
Duration	Surface	Bacteria	Identification Number
7 days	Hard Surfaces	<i>Aspergillus niger</i>	[ATCC 6275]
	Soft (Fabric) Surfaces	<i>Aspergillus niger</i>	[ATCC 6275]
		<i>Penicillium variabile</i>	[ATCC 32333]

{Optional Pictograms- Usage and Use Sites/Surfaces}



[Bracketed text] is optional; text in {braces} is informational to the reviewer.



{The following graphics may incorporate a claim from the list of disinfection claims}



{The following graphics may incorporate a claim from the list of residual disinfection claims}

[Bracketed text] is optional; text in {braces} is informational to the reviewer.



ton hard nonporous surfaces