



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 15, 2021

Kevin Kutcel  
Agent  
Livinguard, AG  
Bahnhofstrasse 12  
6300 Zuq, Switzerland

Subject: Label Amendment – Addition of Product Label Hang Tag  
Product Name: Fabric Treated with Livinguard Technology  
EPA Registration Number: 95700-2  
Received Date: 5/11/2021  
Action Case Number: 00298683

Dear Mr. Kutcel:

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.

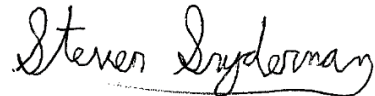
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 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) lists 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 Assurance.

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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 Perri Moeller by phone at (703) 347-8618, or via email at [moeller.perri@epa.gov](mailto:moeller.perri@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Steven Snyderman". The signature is written in a cursive style with a horizontal line underneath the name.

Steven Snyderman, Product Manager 33  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: Final Stamped Label.

**Fabric Treated with Livinguard® Technology**

**[Alternate Brand Names]**

Livinguard® Self-Disinfecting Technology

Livinguard®

Tripellent®

Tripellent® by Livinguard

Livinguard Tripellent®

Virarrest

MicroArrest

MicrobArrest

VBGguard®

LVGguard

VBGban®

AGban®

AGprotec®

4Xban®

Quadguard®

Livinguard® Self-disinfecting Textiles

Continuous Self-disinfectant

Continuous Self-disinfectant (by Livinguard)

Livinguard.com

Continuous Self-disinfection

Non-Stop Self-disinfection

Self-disinfected

Self-disinfecting textile

Patented Self-disinfecting textile

Continually Self-disinfecting

Permanent Self-disinfecting textile

Continuous bacteria-killing textile]

**A C C E P T E D**

**06/15/2021**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 95700-2

The Master Label consists of the label that will accompany the Livinguard® Self-Disinfecting Technology and Textiles and a Fabricated Product Label that will accompany each product fabricated using the registered Livinguard® Self-Disinfecting Technology and associated fabricated products

**Fabric Treated with Livinguard® Technology**

Active Ingredients:

3-(Trimethoxysilyl) Propyldimethyloctadecyl ammonium chloride	0.65%
Polyhexamethane Biguanide	0.26%
Silver	0.18%
Propiconazole	0.44%
Other Ingredients	<u>98.47%</u>
Total	100.0%

**KEEP OUT OF REACH OF CHILDREN**

EPA Reg. No. 95700-2

US Patent No. US9.487,912 B2

NET WT: XXX

Lot No.XXX

\*Active Ingredient is hydrolyzed to produce methanol. The final concentration of the active ingredient and methanol are:

3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride 0.52%  
Methanol approx. 0.1%

[See insert (side panel) (back panel) for Directions for Use]

**DIRECTION FOR USE:**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Fabric is effective in reducing 99.99% *Staphylococcus aureus* ATCC 6538 and *Pseudomonas aeruginosa* ATCC 15442 if the product used for up to 24 hours and then must be washed. Product has been tested up to a total of 30 washings. Do not use bleach. Use a nonionic detergent. Rinse with citric acid to remove any residual soap or detergent if needed. Washing, drying and ironing must not exceed 160°F. The use of this product is a supplement to and not a substitute for standard infection control practices.

User must continue to follow all current infection control practices, including regular washes and good hygiene practices.

Textile materials were tested in fabric form on visibly clean treated fabric surfaces. Antimicrobial treated textile has been shown to reduce microbial contamination, but does not necessarily prevent cross contamination

Livinguard® Technology can be used to treat the following fabrics:

- 100% viscose
- 100% cotton
- All polyester-viscose fabric blends with maximum 65% polyester
- All polyester-cotton fabric blends with maximum 65% polyester

Must use a minimum of 14.3 gallons of solution per 100 lbs fabric for the treatment rate. The percentage weight of active ingredients added to the fabrics before washing must be at least 1.38% (1.3 lbs/100 lbs treated fabric) using the dried weight of fabric, before and after treatment.

Fabric treated with Livinguard® Technology is a patented technology under US Patent Number US9.487,912 B2 dated 11/8/2016 to include all amendments, modifications and related patents. This technology has many applications and is effective against the following microorganisms:

*Staphylococcus aureus* ATCC 6538

*Pseudomonas aeruginosa* ATCC 15442

*(Note to reviewer: the following marketing claims may be used individually or group together. These claims may be used on the product label, insert labeling, and/or fabricated product label. They may also be used with the prefix "This product". If more than one claim is chosen "and" "&" "or" may be used to link them together)*

(Note to reviewer: Bracketed information is denoted as: <<directive>>, (optional text)

(The term "X" is a placeholder that represents a number between 1 and 99)

**Marketing Claims: - all claims to be optional**

- Livinguard Self-disinfecting Textiles<sup>^</sup>
- Continuous Self-disinfectant<sup>^</sup>
- Continuous Self-disinfectant (by Livinguard)<sup>^</sup>
- Long-lasting continuous (disinfecting) (self-disinfecting)<sup>^</sup>
- Durable design for long-lasting continuous performance<sup>^</sup>
- Livinguard Treated Textiles - Kills 99.99% of bacteria in 10 mins with nonstop disinfection for 24 hours<sup>^</sup>
- Continuous Self-disinfection<sup>^</sup>
- Non-Stop Self-disinfection<sup>^</sup>
- Self-disinfecting textiles<sup>^</sup>
- Patented Self-disinfecting textiles<sup>^</sup>

- Continually Self-disinfecting<sup>^</sup>
- Permanent Self-disinfecting textiles<sup>^</sup>
- Continuous bacteria-killing textiles<sup>^</sup>
- Protected by Livinguard
- 100% Livinguard Technology
- Designed (and) (Engineered) in Switzerland
- First of its kind (technology)
- Patented (technology)
- Odor (protection) (protector)
- Controls odors
- Reduce odors
- Long-lasting freshness
- Stay odor free (24/7)
- Odor-resistant
- Odor control that doesn't wash out
- No bacteria, No odor
- Odor (-) free confidence
- Permanent odor control
- Inhibits the growth of odor [on the fabric] caused by bacteria
- Kills pathogenic bacteria (\*)<sup>^</sup>
- Provides a bacteria-resistant surface<sup>^</sup>
- Self-Cleaning of bacteria\*<sup>^</sup>
- Destroys (bacteria), (harmful bacteria)
- Fast acting disinfectant for (textile) (fabric)<sup>^</sup>
- Effectively Eliminates 99.99% germs \*<sup>^</sup>
- Fabric maintains freshness (even after 30 washes)
- Disinfecting
- Effective wash after wash<sup>^</sup>
- (kills) (destroys) (eliminates) (disinfects) (self-disinfects) (stops) 99.99% of bacteria
- Extended bacteria disinfection<sup>^</sup>
- [Great] [Designed] for [apparel]][scrubs]] [shirts] [carpets] [rugs] [uniforms]
- Ten (10) minute bacteria kill
- Kills bacteria within Ten (10) minutes
- Kills 99.99% bacteria non-stop for 24 hours
- Kills 99.99% of bacteria
- Kills 99.99% of bacteria in the fabric
- Effective after 12 repeated inoculations of bacteria within 24 hours
- Has a 5-log kill rate in 10 minutes
- Kills 99.99% of bacteria in 10 minutes
- No regrowth of bacteria after 24 hours of continuous use without washing
- Self-disinfecting, bacteriostatic, and hypoallergenic<sup>^</sup>
- Hypoallergenic (Technology) (fabric) (bacteria disinfection)
- Hypo Allergenic for skin sensitivity
- Non-irritating to the skin
- Self-cleaning (fabric)<sup>^</sup>
- A fabric that's always (hygienically) (fresh) clean

- (Clean) (fresh) fabric
- Pathogen killer\*
- Bacteria does not grow back for up to 30 washes
- Kills 99.99% of gram-negative and gram-positive bacteria\* in 10 minutes
- Kills 99.99% both gram-negative and gram positive bacteria\*
- Continuously kills 99.99% gram-negative and gram-positive bacteria\*
- Inhibits the growth of bacteria^
- A fabric that self-cleans from bacteria ^
- Continuous anti-bacterial performance^
- Wash durable performance
- Disinfecting performance that doesn't wash out (away) ^
- Fabric that protects itself from growth of bacteria^
- Self-Disinfecting without any required action by the user^
- Effective up to 30 (industrial) washes
- Non-leaching
- Kills 99.99% of bacteria continuously across two (twelve) (12) hour work shifts^
- Kills 99.99% of bacteria in 10 mins with nonstop disinfection for 24 hours^
- Kills 99.99% of bacteria continuously across three (eight-hour) (8 hour) work shifts^
- Kills 99.99% of bacteria across (X) (X)- hour work shifts << must be factor of 24>>^

\**Staphylococcus aureus* and *Pseudomonas aeruginosa*

^ (for) up to 30 washes

(Note to reviewer: the following marketing claims may be used individually or group together. These claims may be used on the product label, insert labelling, and/or fabricated product label. They may also be used with the prefix "This product". If more than one claims is chosen "and" "&" "or" may be used to link them together)

**Public Health Claims: - all claims to be optional**

- Kills 99.99% of bacteria such as *Staphylococcus aureus* and *Pseudomonas aeruginosa*.
- Reduces risk of cross-contamination from bacteria between treated surfaces
- Being bacteriostatic, the bacteria does not regrow on the textile in 24 hours, thus providing continued protection without any cleaning action required by the user^
- Non-irritating to the skin.
- Effective against 99.99% Gram Negative and Gram Positive bacteria.

**(Product label is to be affixed on the Product or as an insert)**

**Product Label**

Fabric is effective in reducing 99.99% *Staphylococcus aureus* ATCC 6538 and *Pseudomonas aeruginosa* ATCC 15442 if the product used for up to 24 hours and then must be washed. Product has been tested up to a total of 30 washings. Do not use bleach. Use a non-ionic detergent. Rinse with citric acid to remove any residual soap or detergent if needed. Washing, drying and ironing must not exceed 160°F. The use of this product is a supplement to and not a substitute for standard infection control practices: user must continue to follow all current infection control practices, including regular washes and good hygiene practices. Textile materials were tested in fabric form. Antimicrobial treated textile has been shown to reduce microbial contamination, but does not necessarily prevent cross contamination.

Washed \_\_\_\_\_ Times

**Locations and Surfaces**

Fabric treated with Livinguard® Self-Disinfecting Technology can be used for any textile product in commercial, domestic, industrial, institutional, healthcare, and Military/Defense applications that would benefit from being durable and having self-disinfecting qualities. A representative but non exhaustive application list is defined below:

*(Note to reviewer: the following locations and surfaces can be used individually or group together. If more than one location or surfaces is chosen “and” “&” “or” may be used to link together)*

**[In Healthcare], [Institutional Uses] and [Laboratories ]–**

Uniforms, Scrubs, patient gowns, lab coats, scrub and uniform bags, cubicle curtains, shower curtains, bedrail covers, bed sheets, blankets, bedspreads, mattress protectors, linens, upholstery, towels, cart covers, laundry bags, and face masks ]

**[In Hospitality] and [Travel] [e.g]. [Airlines], [Trains] & [Cruise Ships] or [Public Transportation] or [Transit] –**

Uniforms, aprons, tablecloths, serving spoon covers, linens, blankets, sheets, pillows, pillow cases, bedspreads, towels, food service handlers’ gloves, upholstery, seat covers, head rest covers, doorknob covers, laundry bags, shower curtains, carpeting, flooring, mats and cart covers.]

**[In Food Processing], [Food Handling] [Food Handling and Packaging ]–**

Uniforms, aprons, gloves, face masks, towels, smocks, butcher coats, conveyor belts, carpeting, flooring , matting, cart covers, canvas, polyethylene bags, jute bags and doorknob and spoon covers.]

**[Household and Consumer Products e.g. Homeware , Sports and Apparel]-**



Indoor and outdoor apparel, T-shirts, shirts, socks , face masks, jogging bottoms, trousers, sleep wear, underwear, bra's , buffs, snoods, shoe insoles, athletic gear or apparel, and top covers. Sports bibs, Pantyhose, tights, stockings, leggings.]

[Linens, blankets, sheets, pillows, pillow cases, bedspreads, towels, upholstery, seat covers, head rest covers, laundry bags, shower curtains, carpeting, flooring, rugs, and matts]

[Reusable] [Shopping] and [Grocery Bags]

**[Household Cleaning or General Cleaning Uses]-**

Disposable and non-disposable cloths for cleaning towels, sponges, and or cleaning brushes]

**[Veterinary] and [Pets]:**

Uniforms, face masks, aprons, tablecloths, linens, blankets, bedspreads, towels, gloves, upholstery, seat covers, carpeting and cart covers.]

[Pet blankets and beds, covers, linens, litter tray filters]

**[Military and Defense]:**

Uniforms, Protective Gear, Jackets, Coats, undergarments, towels, bedding, linens, blankets, bedspreads]

**[Other]-:**

Chapel Pews, Carpet, or other types of textiles]

**STORAGE AND DISPOSAL:**

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool dry area.

Pesticide Disposal: Place product in trash or in a sanitary landfill

**WARRANTY STATEMENT:**

Buyer/User assumes the responsibility to handle, use and store this product in accordance with the safety instructions and use directions contained on the label. Buyer/User purchases this product subject to the foregoing Conditions of Sale and Limited Warranty, which, subject to applicable law, maybe varied only by a written agreement signed by a duly authorized

representative of Livinguard, AG.

**Manufactured By:**

Livinguard, AG  
Bahnhofstrasse 12  
6300 Zug, Switzerland

EPA Reg No. 95700-2

**Manufactured for:**

Livinguard Inc.  
75 E Santa Clara St Suite 900  
San Jose, CA 95113

EPA Establishment No. XXX-XXX

**Livinguard® Self-Disinfecting Technology – Fabricated Products**

The Livinguard® Self-Disinfecting Technology Products listed above maybe sold and distributed under EPA Registration Number 95700-2. Products fabricated with Livinguard® Self-Disinfecting Technology must bear the EPA approved product label, below with one or more of the listed claims

**Livinguard® Self-Disinfecting Technology**

**Fabricated Product Label**

**FRONT LABEL:**

<b>Fabric Treated with Livinguard® Technology</b>	
<b>Active Ingredients:</b>	
3-(Trimethoxysilyl) Propyldimethyloctadecyl ammonium chloride	0.65%
Polyhexamethane Biguanide	0.26%
Silver	0.18%
Propiconazole	0.44%
Other Ingredients	<u>98.47%</u>
Total	100.0%
<b>KEEP OUT OF REACH OF CHILDREN</b>	
EPA Reg. No. 95700-2	
EPA Est. No. XXX	
US Patent No. US9.487,912 B2	
NET WT: XXX	Lot No. XXX
*Active Ingredient is hydrolyzed to produce methanol. The final concentration of the active ingredient and methanol are: 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride 0.52% Methanol approx. 0.1%	
[See insert (side panel) (back panel) for Directions for Use]	

**BACK PANEL / INSERT:**

Fabric treated with Livinguard® Technology is a patented technology under US Patent Number US9.487,912 B2 dated 11/8/2016 to include all amendments, modifications and related patents. This technology has many applications and is effective against the following microorganisms:  
*Staphylococcus aureus* ATCC 6583 & *Pseudomonas aeruginosa* ATCC 15442

Laboratory testing has shown that the technology:

[Marketing Claims]

*(Note to reviewer: The marketing and public health claims are optional and may be used individually or group together. The claims located in the label may be used on the product label, insert labeling, and/or fabricated product label. They may also be used with the prefix "This product". If more than one claims is chosen "and" "&" "or" may be used to link them together. Products that bear the EPA approved fabricated product label, must list one or more of the claims*

**DIRECTION FOR USE:**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Fabric is effective in reducing 99.99% *Staphylococcus aureus* ATCC 6538 and *Pseudomonas aeruginosa* ATCC 15442 if the product used for up to 24 hours and then must be washed. Product has been tested up to a total of 30 washings. Do not use bleach. Use a nonionic detergent. Rinse with citric acid to remove any residual soap or detergent if needed. Washing, drying and ironing must not exceed 160°F. The use of this product is a supplement to and not a substitute for standard infection control practices: User must continue to follow all current infection control practices, including regular washes and good hygiene practices. Textile materials were tested in fabric form. Antimicrobial treated textile has been shown to reduce microbial contamination, but does not necessarily prevent cross contamination

**STORAGE AND DISPOSAL:**

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool dry area.

Pesticide Disposal: Place product in trash or in a sanitary landfill

**WARRANTY STATEMENT:**

Buyer/User assumes the responsibility to handle, use and store this product in accordance with the safety instructions and use directions contained on the label. Buyer/User purchases this product subject to the foregoing Conditions of Sale and Limited Warranty, which, subject to applicable law, maybe varied only by a written agreement signed by a duly authorized representative of Livinguard, AG.

**Manufactured By:**

Livinguard, AG  
Bahnhofstrasse 12  
6300 Zug, Switzerland

EPA Reg No. 95700-2

**Manufactured for:**

Livinguard Inc.  
75 E Santa Clara St Suite 900  
San Jose, CA 95113

EPA Establishment No. XXX-???

<<(Optional Graphics/ Company Logo)>>



**livinguard**



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