UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

MEMORANDUM:

To: Lorena Rivas, Risk Manager

From: Anna Katrina Briley, Entomologist

Secondary Review: Deanna Colby PhD, Entomologist

Date: 10/22/2018

Subject: PRODUCT PERFORMANCE DATA EVALUATION RECORD (DER)

THIS DER DOES NOT CONTAIN CONFIDENTIAL BUSINESS INFORMATION

Note: MRIDs found to be **unacceptable** to support label claims should be removed from the data matrix.

DP barcode: 448189
Decision no.: 542216
Submission no: 1021584
Action code: A570
Product Name: Saginaw
EPA Reg. No or File Symbol: 67619-29
Formulation Type: Aerosol
Ingredients statement from the label with PC codes included:
Ethanol 66.34% [PC CODE: 001501]
Dipropylene glycol 5.31% [PC CODE: 068604]
Application rate(s) of product and each active ingredient (lbs. or gallons/1000 square feet or per acre as appropriate; and g/m^2 or mg/cm^2 or mg/kg body weight as appropriate): Apply directly to bed bugs from a distance of 6 to 8 inches until wet.
Use Patterns: Direct spray

I. Action Requested: Review the submitted study to determine if it's acceptable to support the label claims against bed bugs.

II. Background: The registrant submitted MRID 50573403 to support proposed bed bug claims on the label. The product is a disinfectant, registered under the Antimicrobials Division (AD). The label amendment is managed by AD.

III. MRID Summary: (primary reviews are attached)

50573403 Donahue, W. (2018) Laboratory Efficacy Evaluations (Direct Contact) of Saginaw, EPA Reg. No. 67619-29, FIS2013.0017 for the Control of Field Collected and Laboratory Colonies of *Cimex lectularius*. Project Number: CRX17/2. Unpublished study prepared by Sierra Research Laboratories, Inc. 47p.

(1) **GLP**: This study was conducted in accordance with 40 CFR, Part 160.

(2) **Methods:** Saginaw is an aerosol spray, tested for efficacy against bed bugs. The use pattern is for direct application. The study design was balanced with 5 replicates of 10 mixed sex adults each, per strain, for treatment and untreated control groups. The product was directly applied to bed bugs from the laboratory reared, Harlan strain (considered to be susceptible) and a field collected strain from Arizona from a distance of 6-8 inches for 5 seconds. Treated bed bugs were moved to clean containers at 1 hr post-treatment and evaluated for mortality up to 96 hr post-treatment.

(3) **Results:** Application of 4.78 to 4.85 g Saginaw (ethanol 64.7% + dipropylene glycol 5.26%) to deliver 3.09 to 3.14 g ethanol + 0.25 to 0.26 g dipropylene glycol caused ≥90% mortality within 5 min to both Harlan and Arizona strains of bed bugs. Control mortality ≤10%.

(4) **Conclusion: Acceptable.** The data support the product as a direct spray application to kill bed bugs within 5 min when directly sprayed from 6-8 inches away for 5 seconds. Application of 4.78 to 4.85 g Saginaw (ethanol 64.7% + dipropylene glycol 5.26%) to deliver 3.09 to 3.14 g ethanol + 0.25 to 0.26 g dipropylene glycol caused ≥90% mortality within 5 min to both the Harlan strain and Arizona (field collected) strain of bed bugs. There were no submitted data to support claims against a resistant bed bug strain. The Arizona field collected strain's insecticide resistance profile was not reported.

IV. EXECUTIVE DATA SUMMARY: The data support the product, Saginaw, as a direct spray application to kill adult bed bugs. The label claim, "kills bed bugs within 5 minutes when directly sprayed from 6-8 inches away for 5 seconds" is acceptable. The study only tested the effect of Saginaw when directly sprayed on bed bugs, not as a residual application to a surface. There are no submitted data supporting efficacy against bed bugs when the product is sprayed on a surface to contact bed bugs. In addition, no data were submitted to support claims against insecticide-resistant strains of bed bugs.

V. LABEL RECOMMENDATIONS:

Note to reviewer: Please see attached label with comments.
(1) List changes to the directions for use. Please see attached label for specific comments within the Directions For Use. In addition, "To Kill Bed Bugs" directions for use should be their own paragraph and separate from "To Disinfect" since the product application for each use are distinct (i.e., direct spray vs surface spray).

To Kill Bed Bugs: [Shake well.] Hold can upright 6" - 8" -or- in[ches] from surface. Spray bed bugs until thoroughly wet. Let stand for 5 min[utes]. Wait for bugs to stop moving. [Allow to air dry -or- wipe dry]. [Collect bed bugs to give to pest management professional.] A potable water rinse is required for food contact surfaces. [Do not apply to humans, pets or plants.] [Do not use water-based sprays in conduits, motor housing, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.]

(2) The following marketing claims are acceptable:
Kills bed bugs when directly sprayed
Kills bed bugs when directly sprayed from 6-8 inches away for 5 seconds
Kills bed bugs within 5 minutes when directly sprayed
Effective against bed bugs (*Cimex lectularius*) when directly sprayed

(3) The following marketing claims are unacceptable: [Please see attached label with comments]
Any residual efficacy claims against bed bugs (e.g. surface sprays to contact bed bugs)
Any claims of preventing bed bug infestations
Environments that need disinfectants often need a product effective against bed bugs too
Get rid of bed bugs [before they spread]
Helps inhibit or prevent infestations caused by bed bugs
Helps prevent bed bug [introductions] from becoming infestations
Helps prevent travelers from taking bed bugs home
Helps reduce the spread of [bed bugs]
Kills bed bugs and disinfects
Kills bed bugs to help prevent an infestation

Kills bed bugs quickly and/or on contact
Kills insecticide-resistant bed bugs
Kills pathogens found on bed bugs

(4) The following MRIDs should be removed from the data matrix, as they are classified as "unacceptable" to support the product: n/a

(5) Note to PM:
The label claim "Bed bug killing technology" and "Insecticidal [technology]" are unusual claims since the technology (i.e. the product) is not novel nor specific to bed bugs/insects.

This application method against bed bugs is not practical as a stand-alone pest solution for bed bug infestations, in part because bed bugs stay in harborages for much of the time, to where direct spray contact is not always possible or practical for kill and/or control of bed bugs.

Attachments:
Primary Review DER
Proposed label with comments

TASK 2 DATA EVALUATION RECORD

STUDY TYPE: Product Performance

MRID 50573403. Laboratory Efficacy Evaluations (Direct Contact) of Saginaw, EPA Reg No. 67619-29, FIS2013.0017 for the control of field collected and laboratory colonies of *Cimex lectularius*, W.A. Donahue, 2018.

OCSPP Product Performance Guideline: 810.3900

Product Name: Saginaw
EPA Reg. No. or File Symbol: 67619-29
Decision number: 542216
DP number: 448189

Prepared for
Registration Division (7505)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Washington, DC 20460

Prepared by
Summitec Corporation
Task Order No.: Efficacy-1-27

Primary Reviewer:
Chris Peterson, Ph.D.

Signature: Chris Peterson AB
Date: 09/11/2018

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Gene Burgess, Ph.D.

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Date: 09/11/2018

Robert H. Ross, M.S. Project Manager

Signature: Robert H. Ross RH
Date: 09/11/2018

Quality Assurance:
Angela M. Edmonds, B.S.

Signature: Angela M. Edmonds
Date: 09/11/2018

Disclaimer

This review may have been altered subsequent to the contractors' signatures above.
Summitec Corp. for the U.S. Environmental Protection Agency under Contract No. EP-W-16-019

EFFICACY STUDY DATA EVALUATION RECORD (COMPLETED STUDY) - Registration

Primary Reviewer's Name/Title: Chris Peterson, Toxicologist

STUDY TYPE:	PRODUCT PERFORMANCE [OCSPP GUIDELINE NO 810.3900]
MRID:	50573403. Laboratory Efficacy Evaluations (Direct Contact) of Saginaw, EPA Reg No. 67619-29, FIS2013.0017 for the control of field collected and laboratory colonies of *Cimex lectularius*, W.A. Donahue, 2018.
DP BARCODE NO:	448189
DECISION NO:	542216
CONFIDENTIALITY CLAIMS:	None
GOOD LABORATORY PRACTICE:	This study was conducted in accordance with 40 CFR Part 160.
SUBJECT PRODUCT:	PRODUCT NAME: Saginaw EPA REGISTRATION NUMBER OR FILE SYMBOL: 67619-29 FORMULATION TYPE: Aerosol ACTIVE INGREDIENT NAME: Ethanol 66.34% [PC CODE: 001501] Dipropylene glycol 5.31% [PC CODE: 068604] PRODUCT APPLICATION RATE(S) AS LABELED AND AS APPLICABLE TO THIS MRID: Apply directly to bed bugs from a distance of 6 to 8 inches until wet. ACTIVE INGREDIENT APPLICATION RATE(S): Not calculable.

Efficacy Study Data Evaluation Record

Purpose of study

The purpose of the study was to determine the efficacy of Saginaw to insecticide-resistant and field collected bed bugs through direct spray.

Materials and Methods

This test was conducted in Modesto, California on adult bed bugs (*Cimex lectularius*) of the laboratory-reared insecticide-susceptible Harlan strain, or of the field-collected Arizona strain collected from an unreported location (insecticide susceptibility status not reported) (rearing conditions for either strain are not reported). The adult bed bugs were held in 8-oz. plastic petri dishes in groups of 10 to 11 (about 1: 1 sex ratio) in five replications, and untreated control groups consisted of insects held in identical conditions but not receiving any spray. Each petri dish contained a section of mattress ticking. Saginaw (ethanol 64.7% + dipropylene glycol 5.26%) was applied in a 5-second burst directly to the confined insects to deliver 4.78 g (3.09 g ethanol + 0.25 g dipropylene glycol) to the Harlan strain or 4.85 g (3.14 g ethanol + 0.25 dipropylene glycol). The insects were removed after 1 hr exposure to clean 60-mm petri dishes supplied with moistened filter papers. Knockdown (insect incapable of coordinated movements or unable to right itself) was assessed at 30 seconds, and mortality (death = insect displaying no response to outside stimuli) was assessed at 30 seconds, 1, 5, 15, 30, 45 and 60 minutes, 2, 4, 6, and 24-hours, 48, 72 and 96 hours after treatment. The test was conducted at 71.8 to 76.1 °F and 50-54% RH with a 14:10 (D:N) light cycle. Standard errors of the means were calculated and used for comparison of arithmetic means.

Results

Application of 4.78 to 4.85 g Saginaw (ethanol 64.7% + dipropylene glycol 5.26%) to deliver 3.09 to 3.14 g ethanol + 0.25 g dipropylene glycol caused ≥90% mortality within 5 min to both Harlan and Arizona strains of bed bugs (Table 1 = Table 3 of MRID). Control mortality did not equal or surpass 10%.

Table 1.

Table 3. The average percent mortality with standard error (SE) of two strains of bed bugs treated with Saginaw, EPA Reg No. 67619-29, FIS2013.0017 aerosol spray as a direct application at designated times after treatment. (n=5)

		Avg. % Mortality							
Bed Bug Strain	Test Group	30 sec.	1 min.	5 min.	15 min.	30 min.	45 min.	60 min.	2 hour
Harlan Strain	Untreated Control	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
	Saginaw 6769-29	25.0 (8.5)	86.5 (5.0)	100 (0)	100 (0)	100 (0)	100 (0)	100 (0)	100 (0)
Arizona Strain	Untreated Control	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
	Saginaw 6769-29	32.0 (5.8)	84.0 (6.8)	100 (0)	100 (0)	100 (0)	100 (0)	100 (0)	100 (0)

Note: Only mortality was assessed from 30 seconds to 2-hours as there was not sufficient time to determine and record both knockdown and mortality in all the test groups with these time intervals.

Table 3 (= Table 4 in the MRID) indicates that affect insects did not recover from the treatment within 96 hr. [Note: it is unclear to what the two columns under each time refer, as the author indicates in an amendment that knockdown (presumably equivalent to a "moribund" state) was not assessed after 30 seconds.]

Table 3.

Table 4. The average percent knockdown and mortality with standard error (SE) of two strains of bed bugs treated with Saginaw, EPA Reg. No. 67619-29, FIS2013.0017 aerosol spray as a direct application at designated times after treatment. (n=5) beyond 2 hours post treatment

		Avg. % Moribund/Mortality											
Bed Bug Strain	Test Group	4 hour		6 hour		24 hour		48 hour		72 hour		96 hour	
Harlan Strain	Untreated Control	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (2.0)	0.0 (0)	2.0 (2.0)	0.0 (0)	2.0 (2.0)
	Saginaw 6769-29	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)
Arizona Strain	Untreated Control	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
	Saginaw 6769-29	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)	0.0 (0)	100 (0)

The author notes that knockdown and mortality were to be assessed at 30 seconds, 1, 5, 15, 30, 45 and 60 minutes, 2, 4, 6, and 24-hours, 48, 72 and 96 hours after treatment, however knockdown was only assessed at 30 seconds.

Conclusions

Application of 4.78 to 4.85 g Saginaw (ethanol 64.7% + dipropylene glycol 5.26%) to deliver 3.02 to 3.14 g ethanol + 0.25 to 0.26 g dipropylene glycol caused ≥90% mortality within 5 min to both Harlan and Arizona strains of bed bugs.

Label identification

Saginaw, EPA Reg. No. 67619-29

R0942140

15:40 6/6/18

Formatting notes (~~A~~applicable for all claims)
~~***Optional text may be placed anywhere on the label/container.***~~
Now[!] -and/or- **New[!]** -and/~~&~~/or- **Improved[!]** may be added anywhere to ~~be used as~~ a claim ~~descriptor~~ and will only be used for the first 6 months of product on shelf
Optional text may be placed anywhere on the label -and/or- container.
Bold, italicized text is information for the reader and is not part of the label.
~~[~~Bracketed information is optional text.~~]~~
All footnotes are on the last page, unless they are part of EPA's mandated text.
The word "and" may be substituted with "&". Plural words may be used in their singular form or singular words may be used in their plural form unless otherwise specified in 40 CFR.
All directions may be written in numbered form or in paragraph form.
All use sites and/or use surfaces on the label may be listed in conjunction with an image of the use site and/or use surface.
Highlighted text is new. Strike-through ~~(text)~~ means removed.

Saginaw

KEEP OUT OF REACH OF CHILDREN

CAUTION: See back label for additional precautionary statements

ACTIVE INGREDIENTS:
Ethanol.....66.34%
Dipropylene glycol 5.31%
OTHER INGREDIENTS[5]: 28.35%
TOTAL:..... 100.00%

Contains no phosphorus

NET WT[.] _____ OZ[.]

Optional front panel text (we will be adding claims associated with each number)
1
2
3
4

Optional name graphic

PRECAUTIONARY STATEMENTS[:]
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
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 further treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. Emergency Information: 1-800-446-1014 -or- Poison Control Center: 1-800-446-1014 -or- Questions or comments? Call 1-888-797-7225.

PHYSICAL HAZARDS: **Flammable.** Contents under pressure. Keep away from heat, sparks, and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Residential Use
STORAGE/DISPOSAL:
Store at temperatures below 130ºF in a locked storage area inaccessible to children and persons unfamiliar with its use. DO NOT PUNCTURE OR INCINERATE! Offer for recycling; if not available, discard empty container in trash. If partially filled: Call your local solid waste agency for disposal instructions.

Commercial -and/or- Institutional/Industrial Use
STORAGE/DISPOSAL:
Do not contaminate water, food, or feed by storage or disposal.
Pesticide Storage: Store at temperatures below 130º F in a locked storage area inaccessible to 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: DO NOT PUNCTURE OR INCINERATE! Offer for recycling; if not available, discard in trash. If partially filled: Call your local solid waste agency for disposal instructions.

Questions[?] [or] Comments? Call toll-free [1-]800-234-7700 -or- ***insert number***
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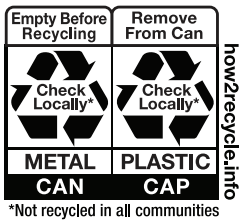
1221 Broadway, Oakland, CA 94612
EPA Reg. No. 67619-29

EPA Est. No. 58996-MO-1 (UY), 74216-IL-1 (WV); 36994-IL-2 (UZ) ***plant code not used if only one plant listed***
Necessary text to be used if we list more than one EPA Est. No. on label; all Est. Nos. listed in this format must have plant code in parentheses; do not use if only one plant listed
Beginning of batch code indicates Est. No.

Made in [the] USA [of global components -or- ingredients]

Patents: www.thecloroxcompany.com/patents

Optional Packaging Recycling Logos



[[Use your phone to] go here -and/or- scan [[the] tag -or- [this] code] to learn -or- get -or- see [more] uses -or- information [on how-to-use [***This Product***]] -or- [how-to] tips -or- [how-to [-use]] videos] [(Data rates may apply)]

DIRECTIONS FOR USE

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

Disinfection

Do not use on glasses, dishes, or utensils.
[Always refer to manufacturer's care instructions before using on equipment -or- devices.]

To Disinfect ~~[-and/or- Kill Bed Bugs]~~ [and Deodorize -and/or- Sanitize]: [Shake well.] Hold can upright 6" - 8" -or- in[ches] from surface. Spray surface ~~-or- bed bugs~~ until thoroughly wet. Let stand for 5 min[utes]. ~~[Wait for bugs to stop moving]~~ [Allow to air dry -or- wipe dry]. ~~[Collect bed bugs to give to pest management professional.]~~ [Gross -or- Heavy] soil must be removed prior to disinfecting -and/or- sanitizing. ***Previous sentence not used if header is "To Kill Bed Bugs"***. A potable water rinse is required for food contact surfaces. [Do not apply to humans, pets or plants.] [Do not use water-based sprays in conduits, motor housing, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.]

To Disinfect the Exteriors of Toilets and Urinals: Remove gross filth prior to disinfection. Hold container upright about 6" - 8" -or- in[ches] from surface. Spray to thoroughly wet hard, nonporous surfaces. Allow to stand for 5 min[utes], then wipe.

This statement to be used on institutional labels with medical use sites, medical devices and/or bloodborne pathogens:
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 preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.
Specific Instructions for HIV-1 and HBV:

[This product] Kills HIV-1 (AIDS Virus) and HBV on precleaned hard, nonporous surfaces -and/or- objects previously soiled with blood -and/or- body fluids in healthcare settings [(hospitals, nursing homes)] or other settings in which there is an expected likelihood of soiling of hard, nonporous surfaces -and/or- objects with blood -and/or- body fluids, and in which the surfaces -and/or- objects likely to be soiled with blood -and/or- body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS) and Hepatitis B Virus (HBV).
Special Instructions for Cleaning and Decontamination Against HIV-1 (AIDS Virus) and HBV on Surfaces -and/or- Objects Soiled with Blood -and/or- Body Fluids: **Personal Protection**: When handling items soiled with blood -and/or- body fluids, ~~appropriate personal protective equipment such and~~ use disposable plastic gloves, gowns, masks, and eye coverings ~~should be considered~~.
Cleaning Procedure: Blood -and/or- body fluids must be thoroughly cleaned from surfaces and objects prior to disinfecting -or- applying this product. **Contact Time**: This product kills HIV-1 (AIDS Virus) and HBV in 1 min[ute]. The contact times for other bacteria, viruses, and fungi may differ. See product label for contact times. **Disposal of Infectious Materials**: Use disposable impervious gloves, gowns, masks and eye coverings. Blood -and/or- body fluids and cleaning materials must be autoclaved and disposed of according to [federal, state and] local regulations for infectious waste disposal.

Sanitization

To Sanitize: [Shake well.] Hold can upright 6" - 8" -or- in[ches] from surface. Spray surface until thoroughly wet. Let stand for 30 sec[onds]. [Allow to air dry or wipe dry.] [Gross -or- Heavy] soil must be removed prior to sanitizing.

To Sanitize the Air: [Shake well.] Close all doors, windows, and air vents. Hold can upright and spray towards center of room for 10 sec[onds]. For maximum effectiveness, relative humidity should be between 45% and 70%. Resume normal air ventilation after spray has settled. Repeat as needed.

To Sanitize Soft Surfaces [(Fabrics)]: [Shake well.] Hold can upright 6" - 8" -or- in[ches] from surface. Spray until fabric is wet. DO NOT SATURATE. Let stand for 30 sec[onds]. Allow to air dry. [For difficult odors or heavy fabrics, repeat application.] [Reapply as necessary.] [Gross -or- heavy] soil must be removed prior to sanitizing.

To reduce allergens[6] **[and deodorize]**: Spray surface until thoroughly wet. Allow to air dry.

Deodorization

To [Control] [Eliminate] Odor-Causing Bacteria on Soft Surfaces [(Fabrics)]: [Shake well.] Hold can upright 6" - 8" -or- in[ches] from surface. Spray until fabric is wet. DO NOT SATURATE. Allow to air dry. [For difficult odors or heavy fabrics, repeat application.] [Reapply as necessary.]

Mildewstat

To Control Mold and Mildew [and Deodorize] on Fabric: [Shake well.] Hold can upright 6" - 8" -or- in[ches] from surface. Spray surface until wet and repeat every 21 days -or- 3 weeks to prevent regrowth. [Gross -or- heavy] soil must be removed prior to application to control mold and mildew.

~~Disinfection~~ Pesticidal Claims

- An effective disinfectant for use in the kitchen~~,~~ -and/or- bathroom~~,~~ -and/or- bedroom~~,~~ -and/or- other areas -and/or- on ***insert surface material(s) from Table 5*** -and/or- ***insert surface(s) from Table 1***
- Antibacterial [Formula] [disinfects]
- Antibacterial -or- germicidal [on hard, nonporous surfaces] [for kitchens and bathrooms]
- Antibacterial -or- germicidal [formula]
- Antibacterial [spray] [action] [formula]
- Any washable food and non-food contact surface where disinfection is required.
- Bactericidal
- [Bathroom~~][,] [~~-and/or-~~] [~~restroom~~][,] [~~-and/or-~~] [~~kitchen] disinfectant
- Bed bug killing technology
- Broad spectrum -or- hospital disinfectant
- Broad surface compatibility
- Can help reduce the spread of germs on treated surfaces
- Demonstrated Effectiveness against ***insert organisms from organism table*** [on hard, nonporous surfaces -or- on ***insert use site(s) from Table 2***]
- Designed for professional use
- Disinfectant
- Disinfectant and Odor Neutralizer for hard Surfaces
- Disinfects & Deodorizes
- Disinfectant [for institutional use]
- Disinfects by killing microorganisms on hard, nonporous surfaces [[:] ***insert surface material(s) from Table 5*** -and/or- ***insert surface(s) from Table 1]***
- Disinfects in one step
- Disinfecting spray
- Disinfect[s]
- Disinfects [to kill the germs]
- Disinfects [washable] kitchen surfaces by killing [99.9% of] germs
- Disinfects [washable] kitchen surfaces by killing [99.9% of] bacteria -and/or- viruses‡ -and/or- a fungus
- Easily disinfect -or- Ready-to-use spray [to easily disinfect]
- [Efficacy -and/or- Independent lab] tests have demonstrated that this product is an effective bactericide, virucide‡, and fungicide in the presence of organic soil (5% blood serum)\
- Effective against bed bugs [(Cimex lectularius)]
- Engineered to kill bacteria, viruses‡, odor and bed bugs
- ~~Environments that need disinfectants often need a product effective against bed bugs too~~
- Facility-Wide Disinfectant
- [For] Disinfecting
- [For] Germ Kill
- For Healthcare use
- [For] Home [Care]
- For hospital -and/or- commercial -and/or- industrial -and/or- institutional use
- For Hospital use
- [For] Surface [care]
- Formulated for professional environments and surfaces
- Fungicidal -or- antifungal
- Germicidal
- ~~Get rid of bed bugs [before they spread]~~
- Hard[, nonporous] surface disinfectant
- ~~Helps inhibit -or- prevent infestations caused by bed bugs~~
- ~~Helps prevent bed bug [introductions] from becoming infestations~~
- ~~Helps prevent travelers from taking bed bugs home~~
- Helps reduce the spread of ***insert organism(s) from organism table*** [on hard, nonporous surfaces]
- Hospital disinfectant
- Insecticidal [Technology]
- Kills [99.9% of] germs [on hard surfaces]
- Kills [99.9% of] bacteria and viruses‡
- Kills [99.9% of] [kitchen~~] [~~-and/or-~~] [~~bathroom] bacteria
- Kills [99.9% of] ***insert organism(s) from organism table*** -or- Kills of the following organisms ***insert organism(s) from organism table***
- Kills bacteria -or- germs -or- viruses‡ on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -and/or- viruses‡ -and/or- a fungus
- ~~Kills bed bugs and disinfects~~
- ~~Kills bed bugs to help prevent infestation~~
- ~~Kills bed bugs quickly -and/or- on contact~~
- Kills cold & flu viruses[7]
- ~~Kills insecticide-resistant bed bugs~~
- Kills -or- Fights -or- is effective against ***insert organisms from organism table*** [on hard, nonporous surfaces -or- on ***insert use surface(s) from Table 1***]
- Kills [household] bacteria
- Kills pathogens ~~found on bed bugs~~[: -or- and Methicillin Resistant Staphylococcus aureus -and/or- Vancomycin Resistant Enterococcus faecalis]
- Kills Salmonella enterica -and/or- kitchen bacteria
- Leaves hard, nonporous surfaces sanitary
- Multi-purpose disinfectant [spray]
- No precleaning required
- One-step disinfectant
- One-step disinfecting
- Provides broad spectrum kill of Gram negative and Gram positive microorganisms
- Pseudomonacidal[8]
- Ready-to-use disinfectant
- Ready-to-use formula provides disinfecting and deodorizing
- Staphylocidal[9]
- [This product] deodorizes and disinfects hard, nonporous surfaces [in ***insert use site(s) from Table 2***]
- [This product] [is a disinfectant that] disinfects and deodorizes in one labor-saving step
- ~~This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method~~
- This product is effective against the [pathogenic] fungus Trichophyton mentagrophytes (Athlete's Foot Fungus) [when used as directed for disinfection] [with a contact time of 5 min[utes]] [on hard, nonporous surfaces] [in bathrooms] [[:] ***insert surface material(s) from Table 5*** -and/or- ***insert surface(s) from Table 1***]
- [This product] kills [99.9% of] bacteria & viruses‡
- [This product] kills bacteria, viruses‡ and mold

- [This product] kills germs throughout the kitchen -or- house -or- restaurant -or- establishment -or- building on hard, nonporous surfaces
- This product was tested using the AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [on ***insert surface(s) from Table 1***] [in ***insert use site(s) from Table 2***]
- Use [the] ***insert ABN*** -or- the product to disinfect -and/or- sanitize high-touch areas.
- Use ***this product*** to clean and disinfect nonporous ***insert surface(s) from Table 1***. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. [(Caution: Cleaning at the 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.)]
- Virucidal‡ ~~-and/or- antiviral‡~~
- Virucidal‡ -and/or- bactericidal -and/or- Pseudomonacidal[8] -and/or- Fungicidal -and/or- Deodorizer

Emerging Viral Pathogen Claims

Allowable per Agency guidance dated August 19, 2016, "Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels."

This product qualifies for emerging pathogen claims against:

For an emerging viral pathogen that is a/an:	*... follow the directions for use for the following organisms on the label:*
Enveloped viruses	Coxsackie Virus Hepatitis A Virus Rhinovirus Rotavirus
Large non-enveloped viruses	Coxsackie Virus Hepatitis A Virus Rhinovirus
Small non-enveloped viruses	Coxsackie Virus Hepatitis A Virus Rhinovirus

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

Insert name of illness/outbreak is caused by ***insert name of emerging virus. This product*** kills similar viruses and therefore can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, non-porous surfaces. Refer to the CDC -or- OIE website at ***insert pathogen-specific website address*** for additional information.

Mildewstat Claims

- Inhibits -and/or- Controls mold -and/or- mildew
- Mold -or- mildew controller
- [This product] controls mold growth on soft surfaces -or- [:] ***insert soft surface(s) from Table 3***
- This product inhibits growth of mold and mildew on fabrics -or- soft surfaces
- [This product] inhibits -or- prevents -or- controls mold and mildew on fabrics [:] ***insert soft surface(s) from Table 3***

Deodorization Claims

- Deodorizes [-and/or- disinfects -or- helps deodorize]
- Deodorizer [for institutional use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates biological odors
- Eliminates foul smells and damp odors
- Eliminate[s] [incontinence] odors [from urine -and/or- feces -and/or- vomit]
- Eliminates [mold] odor[s]
- Eliminates odors at their source
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminate odors without just masking them
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by bacteria]
- Eliminates [pet] odors caused by bacteria
- Eliminates Tough Odors
- 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]
- Kills odor-causing bacteria [in the kitchen -or- bathroom]
- Kills -or- eliminates bacteria that cause [bad] odors
- Leaves a pleasant fragrance
- Leaves [a] fresh, light citrus scent
- Neutralizes odors [(doesn't [just] mask)]
- Odor eliminator
- 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) from Table 2***
- [This product] will deodorize hard, nonporous surfaces [in ***insert use site(s) from Table 2***] [on ***insert surface(s) from Table 1***]
- Tough lingering odors are completely removed

Air Sanitization Claims

- Air sanitizer
- Destroys odors in the air
- Eliminates bacterial odors in the air
- Eliminates biological odors
- Eliminates foul smells and damp odors
- Eliminates odors
- Eliminates odors at their source
- Eliminate odors by neutralizing odor molecules to provide long-lasting elimination.
- Eliminates odors on upholstery and clothing as well as in the air.
- Eliminate odors without just masking them
- Eliminates tough lingering odors like the ones from bathrooms, food, smoke and pets
- Eliminates Tough Odors
- Fights even the toughest cooking, pet, and bathroom odors
- Keeps odors away by killing odor-causing bacteria in the air
- Kills [99.9% of] airborne odor-causing bacteria
- Kills [99.9% of] odor-causing bacteria in the air
- Kills [99.9% of] odor-causing bacteria so odors do not come back
- Kills airborne bacteria
- Leaves a pleasant fragrance
- Leaves an air freshness that lasts [because ***insert product name*** kills odor-causing bacteria]
- Leaves the air smelling fresh and clean
- Neutralizes odors [(doesn't [just] mask)]
- Sanitizes -or- perfect on -or- effective on -or- works on fabric -and/or- air
- Sanitizes the air
- Tough lingering odors are completely removed
- Unlike air fresheners that only mask odors temporarily

Hard Surface Sanitization Claims

- 30 sec[onds] is all it takes to kill [99.9% of] bacteria
- An effective non-food contact surface sanitizer
- Great for use as a non-food contact sanitizer in ***insert use site(s) from Table 2***
- [Kills] [Destroys] [Eliminates] [99.9% of] bacteria on hard, nonporous surfaces in 30 sec[onds]
- Leaves surfaces sanitized
- No precleaning required
- One-step sanitizer
- Sanitize in one step
- Sanitizer and odor neutralizer for soft -and/or- hard surfaces
- Sanitizes by killing [99.9% of] the bacteria [on hard, nonporous surfaces]
- Sanitizes by killing Enterobacter aerogenes and Staphylococcus aureus on hard, nonporous surfaces in 30 sec[onds]
- Sanitizes fabrics and hard surfaces
- Sanitizes hard and soft surfaces
- Sanitizes hard, nonporous surfaces in 30 sec[onds]

Soft Surface Sanitization Claims

- An effective soft surface sanitizer
- Great for use on soft surfaces[:] ***insert soft surface(s) from Table 3***
- Kills microorganisms on [hospital] soft surfaces -or- fabric -or- ***insert soft surface(s) from Table 3***
- Kills -or- Fights -or- Effective against [99.9% of] bacteria -or- sanitizes soft surfaces [on ***insert soft surface(s) from Table 3***]
- No precleaning required
- One-step cleaner sanitizer
- Removes -or- Eliminates odors by killing odor-causing bacteria on soft surfaces-and/or- fabrics -and/or- ***insert soft surface(s) from Table 3***
- [Safe] For use on fabrics -and/or- linens -and/or- blankets‡‡‡ -and/or- upholstered furniture
- Sanitizer and odor neutralizer for soft -and/or- hard surfaces
- Sanitizes by killing Enterobacter aerogenes and Staphylococcus aureus on soft surfaces in 30 sec[onds]
- Sanitizes fabric -or- soft surfaces -or- ***insert soft surface(s) from Table 3***
- Sanitizes in one step
- Sanitizes soft surfaces [in 30 sec[onds]]
- Soft surface -or- fabric sanitizer
- Use on ***insert soft surface(s) from Table 3*** [and other soft surfaces]

Organism table

Insect	
Cimex lectularius	

Disinfection		
Bacteria	***Strain and/or ATCC***	***Contact Time***
Acinetobacter baumannii	[ATCC 19606]	5 min[utes]
Community Associated Methicillin Resistant Staphylococcus aureus -or- CA MRSA	[genotype USA400] [NARSA NRS123]	5 min[utes]
Enterobacter aerogenes	[ATCC 13048]	5 min[utes]
Extended Spectrum Beta-Lactamase (ESBL) producing Escherichia coli	[ATCC BAA-196]	5 min[utes]
Klebsiella pneumoniae	[ATCC 4352]	5 min[utes]
Methicillin Resistant Staphylococcus aureus (MRSA)	[ATCC 33592]	5 min[utes]
[1]Multi-drug Resistant [(MDR)] Enterococcus faecium [MDR]	[ATCC 51559]	5 min[utes]
[2]Multi-drug Resistant [(MDR)] Klebsiella pneumoniae [MDR]	[ATCC 51503]	5 min[utes]
[3]Multi-drug Resistant [(MDR)] Staphylococcus aureus [MDR]	[ATCC 14154]	5 min[utes]
[4]Multi-drug Resistant [(MDR)] Streptococcus pneumoniae [MDR] -or- Penicillin-resistant Streptococcus pneumoniae [PRSP]	[ATCC 700677]	5 min[utes]
Pseudomonas aeruginosa	[ATCC 15442]	5 min[utes]
Salmonella enterica	[ATCC 10708]	5 min[utes]
Staphylococcus aureus	[ATCC 6538]	5 min[utes]
Vancomycin resistant Enterococcus faecalis (VRE)	[ATCC 51575]	5 min[utes]
Fungus	***Strain and/or ATCC***	***Contact Time***
Trichophyton mentagrophytes [(Athlete's Foot Fungus)]	[ATCC 9533]	5 min[utes]
Viruses Enveloped	***Strain and/or ATCC***	***Contact Time***
‡, ‡‡ Hepatitis B Virus (Duck Hep B Virus as surrogate)		1 min[ute]
‡, ‡‡ HIV Type 1	[Strain HTLV-III_B]	1 min[ute]
‡Herpes Simplex Virus type 1	[ATCC VR-733]	5 min[utes]
‡Influenza A Virus	[Hong Kong Strain] [ATCC VR-544]	5 min[utes]
‡Respiratory syncytial virus (RSV)	[ATCC VR-26]	5 min[utes]
Virus Large Non-Enveloped	***Strain and/or ATCC***	***Contact Time***
‡Rotavirus	[Strain WA]	5 min[utes]
Viruses Small Non-Enveloped	***Strain and/or ATCC***	***Contact Time***
‡Coxsackie Type B3 Virus	[ATCC VR-30]	5 min[utes]
‡Hepatitis A Virus	[Strain HM-175]	5 min[utes]
‡Rhinovirus 37	[ATCC VR-1147]	5 min[utes]

Hard Surface Sanitization	***Strain and/or ATCC***	***Contact Time***
Bacteria		
Enterobacter aerogenes	[ATCC 13048]	30 sec[onds]
Staphylococcus aureus	[ATCC 6538]	30 sec[onds]
Soft Surface Sanitization	***Strain and/or ATCC***	***Contact Time***
Bacteria		
Enterobacter aerogenes	[ATCC 13048]	30 sec[onds]
Staphylococcus aureus	[ATCC 6538]	30 sec[onds]

Fabric Mildewstat	***Strain and/or ATCC***
Fungi	
Aspergillus brasiliensis	[ATCC 16404]
Penicillium variabile	[ATCC 52262]

General Claims

- Be ready
- Bleach[-]free ***when used with Clorox® alternate brand name***
- Can be used on all fabric colors
- Clean home
- Clear formula
- Contains no abrasives -or- harsh acids
- Contains no bleach ***when used with Clorox® alternate brand name***
- Does not produce ozone
- Dries quickly
- Easy and convenient to use
- Easy to handle
- Easy-to-use
- Effectively removes every day soils
- Eliminates -or- removes [kitchen -and/or- bathroom] odors
- Encourage your local authorities to establish a program to recycle this can
- For a cleaner, fresher household
- [For] general use
- For more advice -or- tips -or- education -or- support -or- information) call us [toll free] at ***insert phone number***
- For more advice -or- tips -or- education -or- support -or- information) visit us at www.***insert website***.com
- For more advice -or- tips -or- education -or- support -or- information) visit us at our Facebook page at www.***insert website***.com
- For professional use ***to be used on Commercial*** -and/or- ***Institutional*** -and/or- ***Industrial Use labeling only***
- For use in homes
- For use on bathroom surfaces
- For use on both white and colored hard surfaces
- Formula[ted] for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for -or- in Kitchen[s] -and/or- bathroom[s] [too]
- [Great] for everyday use [in kitchens and bathrooms]
- Great for use around the home
- Helps reduce the spread of ***insert organism(s) from organism table*** [on hard, nonporous surfaces]
- [Important Facts about this product[:]
- ~~Institutional~~
- Institutional [size]
- Kitchen formula
- Leaves nothing behind
- Made for kitchen surfaces and odors
- Multi-purpose [product]
- Multi-surface
- No mixing
- No unpleasant odors
- Non-abrasive formula [will not scratch surfaces]
- Non-chlorine formula: will not bleach clothing or colored surfaces
- [Please] Recycle empty container
- Ready to use
- Safe to use on ***insert surface material(s) from Table 5***
- Shelf-stable formula
- [The] smell of clean
- This can is made from an average of 25% recycled steel (10% post-consumer)
- Twin -or- Value Pack
- Use on common areas -and/or- on ***insert surface material(s) from Table 5*** -and/or- ***insert surface(s) from Table 1*** [in ***insert use site(s) from Table 2***]
- Use on hard, Nonporous Surfaces[:] [Associated with the Following] ***insert surface(s) from Table 1*** -and/or- ***insert surface material(s) from Table 5***
- Use on hard, nonporous surfaces in ***insert site(s) from Table 2***
- Use on soft surfaces [associated with the following][:] ***insert surface(s) from Table 3***
- Will not harm [fabrics, carpets and] most hard, -and/or- soft nonporous surfaces
- Will not harm special -or- premium surfaces

Dye & Scent Descriptors and Claims

- Citrus scented -or- blend
- Contains no [dyes] [added colors]
- Dye-free
- Free of added -and/or- Dyes -and/or- colors
- Free -or- clear of dyes
- Fresh citrus [formula -and/or- scent]
- [Fresh] Lavender scent
- Fresh Scent
- Freshens
- [Has a] [fresh] citrus scent -or- fragrance -or- smell -or- formula
- Light -and/or- clean -and/or- fresh -and/or- citrus scent -or- fragrance
- Lightly scented -or- quick-dissipating scent

Allergen Removal

- Allergen reducer[6]
- Cockroach matter -or- particles
- Dust mite matter -or- particles
- Pet dander -or- dog and cat dander
- Reduces allergy-causing particles, [:] pet dander, and dust mite matter
- Reduces dust mite matter -or- particles, cockroach matter -or- particles, and pet dander allergens [found in dust]
- Reduces [Many] Allergens[6][!]

Table 1 Hard Nonporous Surfaces

amalgamators -and/or- dental curing lights
apex locators
appliance -or- cabinet knobs
appliance exteriors
[arm]chairs
[athletic] equipment
autoclaves
bassinets
[bathroom] doorknobs
[bathroom] fixtures
[bathroom -and/or- kitchen] faucet~~[s]~~
~~[~~-and/or- handles~~]~~
bathroom~~[s]~~ [surfaces]
[bath]tubs
bed frames
bedroom -or- bedside furniture
bedpans
bedrails -and/or- railing
bed~~[s]~~
[bedside] commodes
bedside tables
behind and under counters -and/or- sinks
blood pressure cuffs
B[lood] P[ressure] ~~(BP)~~ monitors
boat interiors
booster chairs
brush handles
burner trays
bus interiors
cabinets
call boxes
camper interiors
canes
car interiors
carts
CAT -or- Computerized Axial Tomography equipment
~~chairs -or- arm chair~~
[children's] furniture
chalk boards
closets
coated ceilings
[common] hard, nonporous [household] surfaces
computer tables
cooler exteriors
cords
[crash -and/or- emergency] carts
cupboards
cribs
crutches
dashboards
[dental] counter[top]s
dental operatory surfaces
dentists' -or- dental chairs
desk~~[s]~~ [tops]
diagnostic equipment
dialysis machines exteriors
diaper pails
dining -and/or- fast food [restaurant] -and/or- kitchen -and/or- picnic -and/or- play -and/or- restaurant -and/or- tray -and/or- diaper -or- infant -and/or- changing -and/or- tables -and/or- stations
dining room surfaces -and/or- tables
dish racks
door~~[s]~~ [handle~~[s]~~ -and/or- frame~~[s]~~]
doorknobs
drain boards
drawer pulls
drawers
dressing carts
dryers
edges of privacy curtains
elevator buttons
endodontic equipment
[exam[ination]] tables
exercise balls
exercise bands
exercise [machines]~~]~~ ~~[~~-and/or- equipment]
exhaust fans
exterior -or- external toilet surfaces
exterior -or- external urinal surfaces
~~[~~external~~]~~ ~~[~~surfaces of~~]~~ ultrasound transducers ~~[~~-and/or- probes~~]~~
exterior surfaces of electronic devices
faucets
[filing -and/or- medicine] cabinets
food cases
food trays
free weights
freezer exteriors
furniture
garage surfaces
garbage -or- trash cans
glazed ceramic ~~[~~restroom surfaces~~]~~
glazed porcelain ~~[~~tiling -or- tile~~]~~
glucometers exteriors
grab bars
grill surfaces
[grocery [store] -or- supermarket] carts [handles -and/or- child seats]
gurneys
gym[nastic] equipment
[hand]railings -or- rails
hard, nonporous ~~floors -or-~~ floor[ing] ~~hard, nonporous floors~~ [around toilets]
hard, nonporous hospital -and/or- medical -and/or- dental surfaces
headsets
helmets
high chairs (non-food ~~contact~~ surfaces)
hoods
IV ~~[~~stands -and/or- poles~~]~~
jacuzzi surfaces
[kid's] play [structures -and/or- equipment -and/or- furniture -and/or- tables]
~~[~~kitchen -and/or- break room~~]~~ surfaces
kitchen appliance exterior~~[s]~~ [surfaces]
kitchen [tray]
laminated surfaces
light fixtures -and/or- switches -and/or- panels
light lens covers
lobby -and/or- common area surfaces
lockers
loupes
medication carts
metal blinds
metal work benches
microwave exterior
mobile workstations
motor home interiors
mouse pads
office machinery
office -and/or- bedroom -and/or- bedside furniture
operating room tables -and/or- light~~s~~ [switches]
~~operating room light~~
other hard nonporous surfaces
overbed tables
paddles
painted surfaces
patient beds
patient chairs
patio furniture
patient chairs
patient monitoring equipment
patient support and delivery equipment
pencil sharpeners
pet surfaces
phlebotomy trays
physical therapy equipment surfaces
[plastic] [clothes -and/or- diaper -and/or-] hampers
[plastic] fly swatters
plastic laundry ~~hampers -or-~~ baskets
plastic -and/or- metal outdoor furniture [(excluding wood frames and upholstery)]
plastic -and/or- vinyl mattress covers
plastic patio furniture -or- lawn chairs

plastic surfaces associated with[:] floors~~, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms~~ ***insert surface(s) from Table 1*** -and/or- ***insert surface material(s) from Table 3***
playpens
[porcelain] toilet bowls
portable toilet exteriors
~~[~~porcelain -and/or- sealed~~]~~ tile
prescription container exteriors
pulp testers and motors
pulse oximeters
PVC tubing
range hoods
reception counters -and/or- desks
recycling bins
refrigerator exterior [door handles]
remotes
remote control~~[s]~~ [exteriors -or- back] [(not button)
rocking chairs
RV interiors
safety rails
salad bar sneeze guards
scales
scooters (Avoid wetting plug or charging port by covering with a towel) ***"(Avoid wetting plug or charging port by covering with a towel)" is not optional text.***
[sealed -and/or- tiled] walls
seats
shelves ~~[and]~~
shin guards
shoes
shopping carts
shoulder pads
shower~~[s]~~ ~~-and/or-~~ [curtains -and/or- doors -and/or- stalls -and/or- walls]
side rails
signs
sink~~[s]~~ [basins]
slit lamps
spine backboards
sports equipment
stall doors
stalls
staplers
steering wheel
stethoscopes
stools
stretchers
surfaces in and around toilets in patient rooms
table[top]s
tires
[toilet [flush] -and/or- telephone -and/or- cabinet -and/or- dishwasher -and/or- door] handles
toilet handholds
toilet~~[s]~~ [rims -or- seats]
tools
towel -and/or- soap dispensers
toy boxes -or- storage bins
traction devices
trailers
[training] toilets
trash cans -and/or- compactors
tray tables
tubes
tubs
urinals
vanities
vanity tops ~~-or-~~
vehicle interiors
vending machine surfaces
[vinyl] wallpaper
walkers
walls [around toilet~~]~~ [-and/or- in patient rooms]
wash basins
[washable] kitchen~~[s]~~ [surfaces]
washers ~~-and/or-~~ -or- washing machine exterior~~[s]~~
wastebaskets
water coolers
water fountains
weight machines
wheel chairs
whirlpool surfaces
whirlpool tubs -and/or- jacuzzis
white boards
window [blinds -and/or- shades]
windshields
[wrestling -and/or- exercise] mats

Table 2 Use Sites

[Air]planes
~~[~~Airports~~]~~
Ambulances -or- [Emergency Medical] Transport Vehicles
Anesthesia Rooms -or- areas
Athletic [Recreational] Facilities
Athletic Training Rooms
[Assisted Living -and/or- Full Care] Nursing Homes
Automobiles
Banquet Halls
Barber Shops
Bars
Basements
Bathroom~~[~~s~~]~~
Bathroom -and/or- Locker Room Facilities
Beauty Salons
Bedroom~~[~~s~~]~~
[Blood -and/or- plasma -and/or- semen -and/or- milk -and/or- apheresis] Donation Centers ~~for~~
Blood Banks
Bowling Alleys
Break rooms
Butcher Shops
Cafeterias
CAT Lab[oratories]
Catering Facilities
Commercial -and/or- Institutional Kitchens
Central Service Areas
Central Supply Rooms -or- Areas
Churches
Classrooms~~]~~
Colleges
Convenience Stores
Correctional Facilities
Critical Care Units -or- CCUs
[Damp] Storage Areas
Day Care Centers
Delis
Den~~[~~s~~]~~
Dental Offices
Dental Operatories
Dental -or- Dentists' Offices
Dining Room
Discount Retailers
Doctor's Offices
Dorm~~[~~s~~]~~ [rooms]
[College] Dorm[itorie]s
Elevators
E[mergency] R[oom]s
Emergency Vehicles
Exam[ination] Rooms
Eye Surgical Centers
Factories
Fast Food Chains -or- Restaurants
Food Preparation -and/or- Processing Areas -and/or- ~~Food Processing~~ Plants
Food [Service -or- Processing] Establishments
Food Serving Areas
Funeral Homes
Garages
[Garbage -and/or- Waste] Storage Areas
Gas Stations
General Merchandise Stores
Grocery Stores
Gym[nasium]s
Health Care Settings -or- Facilities
Health Club~~[~~s~~]~~ [Facilities]
Home~~[~~s~~]~~
Home Centers
Home Healthcare [settings]
Hospices
Hospitals
[Hospital] Kitchens
Hotels
Houses of Worship
Industrial Facilities
[Institutional] Kitchens
[Institutional] Laundromats
Institutions
I[ntensive] C[are] U[nits] -or-areas
Kennels
Laboratories
Laundromats
Laundry Room~~[~~s~~]~~
Lavatories
Libraries
Living Room
Lobbies
Locker Rooms
Lodging Establishment
Long Term Care Facilities
Lounges
Malls
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers~~, and/or~~
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's offices
Military Installations
Mobile Homes
Mortuaries
Motels
Mudrooms
Newborn -or- Neonatal nurseries -and/or- Intensive Car Units NICU
Nurseries
Nursing -or- Nurse's Stations
Office~~[~~s~~]~~ [Buildings]
Ophthalmic Offices
Orthopedics
Other Food Service Establishments
O[utpatient] S[urgical] C[enters] ~~(OPSC)~~ -and/or- Clinics -and/or- Facilities
Patient Area~~[~~s~~]~~
Patient Restroom~~[~~s~~]~~
Patient Room~~[~~s~~]~~
[Pediatric] Exam[ination] Rooms -or- Areas
P[ediatric] I[ntensive] C[are] U[nits] ~~[PICU]~~
Pet Areas
Pharmacies
[Physicians'] Offices
Physical Therapy Rooms -or- areas
Play Areas -or- Rooms
Police Departments
[Police -and/or- Fire] Vehicles
Portable Bathrooms
Produce Areas
Psychiatric facilities
Public Areas
Public Facilities
[Public] Restrooms
Public Transportation
Radiology -or- X-ray rooms -or- areas
Recovery rooms
Reception areas
Recreational Centers -or- Facilities
Rehabilitation Centers
Rental Cars
Rest Stops
Restaurants
Restroom Areas
Retail Businesses
Retirement Homes
Saunas
School Buses
School Kitchens
Schools
Shelters
Ships
Shopping Centers
Shops
Shower~~[~~s~~]~~ [area]
Shower Rooms
Sports Arenas -and/or- stadiums
Steam Rooms
Storage Rooms -or- Areas
Subways
Supermarkets
Surgery Rooms -or- O[perating] R[ooms]
Taxis
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Waiting Rooms -or- Areas
Warehouse Clubs

Table 3 Soft Surfaces

bedding‡‡‡	fabric	sofas
blankets‡‡‡	fabrics [laundry]	soft surfaces
blinds	gym bags	sports equipment [lining]
carpets	headrests	[upholstered] armchairs
chairs	linens	upholstered furniture
contaminated clothing	mats [for day care]	upholstery
couches	mattresses	~~vinyl [tile -and/or-~~
curtains	seat -and/or- sofa cushions	window treatments
drapes	shades	
exercise mats	sheets	

Table 4 Personal Protective Safety Equipment

face shields	protective headgear	vinyl covered earmuffs
goggles	silicone rubber -or- PVC hearing protectors	
hard hats	spectacles	

Table 5 Hard Nonporous Surface Materials

acrylic [glass]	[hard] plastic -or- vinyl	sealed granite
[baked -and/or- porcelain] enamel	iron	sealed wood
chrome	linoleum	stainless steel
crystal (non-food ~~contact~~ areas)	Marlite[®][λλλ]	synthetic marble
fiber-reinforced plastic	metal	vinyl [linoleum]
Formica[®][λλ]	plastic [laminate]	
glass	Plexiglas[®][¤¤¤]	
glazed [ceramic] tile~~[~~s~~]~~	sealed fiberglass	

~~Disclosure Information~~

~~[Contains] Sodium nitrite [CAS # 7632-00-0], Ethanol [CAS # 64-17-5], [and] D-Limonene [CAS # 5989-27-5]~~

Footnotes

[[1] MDR Enterococcus faecium strain has shown resistance to the following antibiotics: Ampicillin, Penicillin, Gentamicin]

[[2] MDR Klebsiella pneumoniae has shown resistance to the following antibiotics: Ampicillin, Ampicillin/Sulbactam, Cefazolin, Cefepime, Ceftazidime, Ceftriaxone, Gentamicin, Trimethoprim/Sulfa]

[[3] MDR Staphylococcus aureus has shown resistance to the following antibiotics: Erythromycin, Penicillin, Tetracycline]

[[4] MDR Streptococcus pneumoniae has shown resistance to the following antibiotics: Azithromycin, Ceftriaxone (meningitis), Clindamycin, Meropenem, Penicillin (meningitis), Penicillin (nonmening), Penicillin (oral)]

[5] This product contains sodium nitrite.

[6] Cockroach matter -or- particles, Dust mite matter -or- particles, Pet dander -or- dog and cat dander

[7] Influenza A Virus, Rhinovirus 37

[8] Pseudomonas aeruginosa

[9] Staphylococcus aureus

‡ [Viruses]

‡‡ [Bloodborne Pathogens]

‡‡‡ Spray bedding -or- blankets when bed is not occupied, and allow to air dry prior to [patient] use.

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