

70627-2

3-22-2002

1/14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 22 2002

Ms. Lisa Amadio
Senior Registration Specialist
S.C. Johnson Commercial Markets, Inc.
8310 16th Street, MS 675
Sturtevant, WI 53177-0902

SUBJECT: Disinfectant D.C. 100
EPA Registration Number: 70627-2
Application Dated: September 19, 2001
Receipt Date: September 24, 2001

Dear Ms. Lisa Amadio

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

- Update label language
- Add public health organisms at 3 minute contact time
- Update First Aid Statements

Conditions

Revise the label as follows:

1. Make the following revision to page one:

Delete the parentheses surrounding the word "only" in the following statement:
"For (Hospital,)(Commercial)(Industrial) & Institutional Use Only"

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2. Make the following revision to page two:

In the third section beginning "It is designed for use on (Use Daily on)..." revise to specify "...*exterior surfaces of microwave ovens*..."

3. Make the following revisions to page three:

A. In the second section delete the parenthesis prior to the word "associated" and delete the surface "non-porous cutting boards" in the statement: "...surfaces associated with walls, ceilings, tables, chairs, countertops, fixtures, glazed tile, toilets, (toilet bowls), urinals, sinks..." Also delete "cutting boards" from the directions "For use as a Cleaner/Disinfectant" (page 6) and "For use in Food Processing Plants" (page 6.) The treatment of "non-porous cutting boards", even when followed by a potable water rinse, is not appropriate for a disinfectant product.

B. In the fourth section delete the parenthesis prior to the word "associated" and following the word "equipment" in the statement: "...laminated surfaces associated with floors, walls, countertops, cages, kennels, animal equipment found in..."

4. Your data supports disinfection claims for most of the public health organisms listed at a 3 minute contact time. There are two organisms for which data has only been supplied to support a 10 minute contact time: *Staphylococcus aureus* (Intermediate Vancomycin Resistance (VISA)) and *Mycobacterium tuberculosis* (BCG). Thus your directions for use must be revised. Revise the reference to contact time on pages 5, 6, and 7 for:

- "Disinfection, Deodorizing and Cleaning"
 - "One-step cleaning and disinfection of toilet bowls and urinals,"
 - "For use as a Cleaner/Disinfectant,"
 - "For use in Food Processing Plants,"
 - "For use as a Non-Acid Cleaner/Disinfectant for Toilet Bowls and Urinals,"
 - "For Use For Treatment of Animal Housing Facilities"
- and the directions for HBV and HIV

to state: "...3 minutes, 10 minute contact time required for *Staphylococcus aureus* (Intermediate Vancomycin Resistance (VISA)) and *Mycobacterium tuberculosis* (BCG)."

These revisions will identify the fact that there are organisms listed which are not killed in 3 minutes.

5. Make the following revision to page four:

Add the following statement to the beginning of the "One-step cleaning and disinfection of toilet bowls and urinals" section: "*Remove gross filth or heavy soil prior to application of the product.*"

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6. Make the following revision to page five:

Delete the following organism from the directions for disinfections with a contact time of 10 minutes: *Staphylococcus aureus* (ATCC 33592) (Resistant to Methicillin [MRSA]). The ATCC number you have provided identifies *Staphylococcus aureus* which is resistant to Gentamicin and Methicillin. We are unable to confirm that the data you have cited is for this strain of *Staphylococcus aureus*. If you desire to add this organism to the label, provide data which confirms the resistance of this organism to both antibiotics and demonstrates the effectiveness of your product.

7. Make the following revision to page six:

Add the following statement to the beginning of the directions "To Sanitize Non-Food Contact Surfaces": "*Preclean surface prior to sanitization.*"

8. Make the following revisions to page seven:

Revise the directions "For Use For Treatment of Animal Housing Facilities" such that #2 states: "...and other facilities *and fixtures* occupied or..." Also add the following statement: "*Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.*" Add the following to the beginning of #6: "*Ventilate buildings, vehicles, and other closed spaces.*"

9. Make the following revision to page nine:

Since this is the reference sheet, delete the statement: "See reference sheet (enclosed in each case) for a complete list of organisms."

Acceptable Data

A copy of the efficacy review is enclosed.

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

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If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

Should you have any questions or comments concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

Jacqueline L. McFarlane

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510C)

Enclosure: Stamped Label
Efficacy Review D278454
7510C:T.Lantz:3/20/02:70627-2f

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Johnson wax PROFESSIONAL

DISINFECTANT D.C. 100

READY-TO-USE DISINFECTANT DEODORIZING CLEANER

- Cleaner • Deodorizer • Disinfectant • Tuberculocidal •*Virucide
 - Fungicide (against pathogenic fungi) • Mildewstat (on hard non-porous surfaces)
- Meets OSHA Bloodborne Pathogen Standard for HBV & HIV

For (Hospital,) (Commercial) (Industrial) & Institutional Use (Only)

ACTIVE INGREDIENTS:	
n-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chlorides.....	0.105%
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chlorides.....	0.105%
INERT (OTHER) INGREDIENTS:	<u>99.790%</u>
TOTAL:	100.000%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See additional precautionary statements on back (side) (left) (right) (panel) (of) (label) (below).

See reference sheet (enclosed in each case) for (a complete list of pathogenic organisms) (additional features, claims, directions for use) (claimed for this product) (eliminated by Disinfectant D.C. 100).

Net Contents:

Product of U.S.A.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

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Under the Federal Insecticide,
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DISINFECTANT D.C. 100 is designed specifically as a general non-acid cleaner and disinfectant for use in hospitals, nursing homes, schools and hotels. It is formulated to disinfect (the following) (hard non-porous environmental surfaces such as walls, metal surfaces, stainless steel surfaces, sink tops, tables, chairs, telephones, glazed ceramic tile in bathrooms, shower stalls, bathtubs, and cabinets. May be used in the kitchen on counters, sinks, appliances, and stovetops. A rinse with potable water is required for surfaces in direct contact with food. Do not use on eating utensils, plates or glasses. In addition, this product deodorizes those areas, which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, basements, restrooms and other areas, which are prone to odors caused by microorganisms.

(FEATURES, CLAIMS & USES:)

(General disinfectant cleaner:)

DISINFECTANT D.C. 100 is a ready-to-use, non-abrasive germicidal (disinfectant) cleaner and deodorant (odor-counteractant) (odor neutralizer) designed for general cleaning, (and) disinfecting (deodorizing) (and controlling mold and mildew on) of hard, non-porous inanimate surfaces. Quickly removes dirt, grime, mold, mildew and other common soils found in hospitals, nursing homes, schools and colleges, (day care centers), (medical) offices, funeral homes, veterinary clinics, pet shops, (equine farms), animal life science laboratories, hotels, motels, public restrooms, food processing plants, and food service establishments (restaurants). Use it on all hard, non-porous inanimate (restroom) surfaces.

It is designed for use on (Use daily on) the following hard, non-porous inanimate surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, aluminum, laminated surfaces and baked enamel surfaces associated with walls, ceilings, tables, chairs, countertops, microwave ovens, kitchen areas, telephones, fixtures, glazed tile, toilets, urinals, sinks, shower rooms and locker rooms areas - any washable (food and non-food contact) surface where disinfection is required. A potable water rinse is required for all food contact surfaces. It (also) eliminates odors leaving (restroom) surfaces smelling clean and fresh. Use where odors are a problem. This product must not be used to clean the following surfaces: utensils, glassware, and dishes.

(Hospitals/Health Care Facilities:)

DISINFECTANT D.C. 100 is a one-step (hospital-use) germicidal (disinfectant) cleaner and deodorant (odor-counteractant) (odor neutralizer) designed for general cleaning, (and) disinfecting (deodorizing) (and controlling mold and mildew on) (of) hard, non-porous inanimate surfaces. Quickly removes dirt, grime, mold, mildew, food residue, blood and other organic matter commonly found in hospitals (in health care facilities) (on medical surfaces). It (also) eliminates odors leaving (restroom) surfaces smelling clean and fresh. Use where odors are a problem.

DISINFECTANT D.C. 100 cleans, disinfects and deodorizes hard, non-porous inanimate (hospital (medical) surfaces) in one step (with no rinsing required). Use daily on the following hard, non-porous inanimate surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, laminated surfaces and baked enamel surfaces associated with walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, sinks found in (health care facilities [hospitals,] patient rooms, operating rooms, ICU areas, shower rooms, and locker rooms. (It can also be used to pre-clean and disinfect hospital items such as wheelchairs, [hospital] [patient] bed rails and linings, wash basins, bed pans, medical equipment surfaces) - any washable (food and non-food contact) surface (where disinfection is required). A potable water rinse is required for all food contact surfaces. This product must not be used to clean the following surfaces: utensils, glassware, and dishes.

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(Food Service:)

DISINFECTANT D.C. 100 can be used to clean food contact surfaces as well as the rest room and general areas. Quickly removes dirt, grime and food soils in food preparation and processing areas. Its non-abrasive formula will not harm (scratch) surfaces. It cleans, disinfects and eliminates odors leaving surfaces smelling clean and fresh. Use where odors are a problem.

Its non-abrasive formula is designed for use on (Use daily on) the following hard, non-porous inanimate surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, aluminum, stainless steel, brass, copper, laminated surfaces and baked enamel surfaces (associated with walls, ceilings, tables, chairs, countertops, non-porous cutting boards, fixtures, glazed tile, toilets, (toilet bowls), urinals, sinks found in food establishments, (restaurants), (commercial kitchens) & restrooms - any washable (food and non-food contact) surface (where disinfection is required). A potable water rinse is required for all food contact surfaces. This product must not be used to clean the following surfaces: utensils, glassware, and dishes.

(Animal Housing Facilities:)

DISINFECTANT D.C. 100 removes dirt, grime, mold, mildew, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine or poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities. It (also) eliminates odors leaving surfaces smelling clean and fresh.

It cleans, disinfects and deodorizes hard, non-porous inanimate surfaces in one step. Its non-abrasive formula is designed for use on (Use daily on) (Use daily to clean and disinfect) hard, non-porous inanimate surfaces: plated or stainless steel, aluminum, chrome, glazed porcelain, glazed tile, laminated surfaces (associated with floors, walls, countertops, cages, kennels, animal equipment) found in (barns, pens and stalls) animal housing facilities.

(Public Restrooms:)

DISINFECTANT D.C. 100 is a one-step disinfectant cleaner and deodorant (odor-counteractant) (odor-neutralizer) designed for general cleaning, (and) (disinfecting) (deodorizing) (and controlling mold and mildew) on hard, non-porous inanimate surfaces.

It cleans, disinfects and deodorizes surfaces by killing odor-causing microorganisms and prevents (inhibits) (controls) the growth of mold and mildew. It's non-abrasive formula is designed for use on (restroom surfaces): glazed ceramic (restroom) glazed tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms.

(Non-Acid Bowl [& Bathroom] Disinfectant Cleaner:)

DISINFECTANT D.C. 100 is (also) a (ready-to-use) non-acid (bowl and) bathroom cleaner which cleans, disinfects and deodorizes in one easy step. Simply apply it like you would a non-acid bowl cleaner. It cleans, disinfects and deodorizes toilet bowls, urinals, rims, sinks, sink basins, faucets, tubs, glazed tiles, glazed ceramic, glazed porcelain, chrome, stainless steel, and all non-porous inanimate surfaces found in the bathroom (restroom) (in the presence of organic soil).

It eliminates odors leaving bathrooms (restrooms) smelling clean and fresh. Use where odors are a problem. It cleans, disinfects and deodorizes surfaces by killing odor-causing microorganisms and prevents (inhibits) (controls) the growth of mold and mildew. Its non-abrasive formula is designed for use (Use it daily) on (restroom surfaces): glass, glazed ceramic (restroom) glazed tile, glazed porcelain, chrome, stainless steel, and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms.

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(Refill)

To Refill Product From Large Containers Into Smaller Containers:

DISINFECTANT D.C. 100 may be used to fill and refill clean, properly labeled containers for use elsewhere within your facility.

1. Make sure the small container has been cleaned, dried and properly labeled. Also make sure other items (such as funnels or hand pumps) are properly cleaned and dried.
2. To refill, simply pour (or pump product) from the larger container directly into the smaller one being careful not to spill any product.
3. Keep both containers sealed when not in use.

(CLAIMS:)

When used as directed, DISINFECTANT D.C. 100 (contains 2100 ppm of active germicide making it) (is) highly effective against a wide variety (broad-spectrum) of pathogenic microorganisms (including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew. See reference sheet (enclosed in each case) for a complete list of organisms).

Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 10% serum load and 3 minute contact time (unless otherwise noted); DISINFECTANT D.C. 100 kills the following:

Bacteria (Bactericidal Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|---|---|---|
| <i>Pseudomonas aeruginosa</i> , (ATCC 15442) | <i>Enterococcus faecalis</i> , (ATCC 19433) | <i>Proteus mirabilis</i> , (ATCC 33583) |
| <i>Staphylococcus aureus</i> , (ATCC 6538) | formerly known as <i>Streptococcus faecalis</i> | <i>Proteus vulgaris</i> , (ATCC 13315) |
| <i>Salmonella choleraesuis</i> , (ATCC 10708) | <i>Enterococcus hirae</i> , (ATCC 10541) | <i>Pseudomonas fluorescens</i> , (ATCC 13525) |
| <i>Acinetobacter calcoaceticus</i> , (ATCC 23055) | <i>Escherichia coli</i> , (ATCC 11229) | <i>Salmonella enteritidis</i> , (ATCC 4931) |
| <i>Burkholderia cepacia</i> , (ATCC 25416) | <i>Escherichia coli</i> 0157:H7, (ATCC 43890) | <i>Salmonella schottmuelleri</i> , (ATCC 10719) |
| formerly known as <i>Pseudomonas cepacia</i> | <i>Haemophilus influenza</i> , (ATCC 10211) | <i>Salmonella typhi</i> , (ATCC 6539) |
| <i>Brevibacterium ammoniagenes</i> , (ATCC 6872) | <i>Klebsiella pneumoniae</i> , (ATCC 13883) | <i>Serratia liquefaciens</i> , (ATCC 35551) |
| <i>Campylobacter fetus</i> , (ATCC 27374) | <i>Legionella pneumophila</i> , (ATCC 33153) | <i>Shigella dysenteriae</i> , (ATCC 13313) |
| <i>Campylobacter jejuni</i> , (ATCC 29428) | <i>Listeria monocytogenes</i> , (ATCC 15313) | <i>Shigella flexneri</i> , (ATCC 9380) |
| <i>Citrobacter freundii</i> , (ATCC 8090) | <i>Micrococcus luteus</i> , (ATCC 4698) | <i>Streptococcus pyogenes</i> ("Strep A" - |
| <i>Enterobacter aerogenes</i> , (ATCC 13048) | <i>Morganella morganii</i> , (ATCC 25830) | Flesh Eating Strain), (clinical isolate) |
| <i>Enterobacter agglomerans</i> , (ATCC 27155) | <i>Neisseria gonorrhoeae</i> , (ATCC 43069) | <i>Vibrio cholera</i> , (ATCC 11623) |
| | <i>Pasteurella multocida</i> , (ATCC 43137) | <i>Yersinia enterocolitica</i> , (ATCC 23715) |

Antibiotic-Resistant (Strains of) Bacteria (Antibiotic-Resistant Bactericidal Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|--|--|---|
| <i>Enterococcus faecalis</i> , (ATCC 51299);
(Resistant to Vancomycin [VRE]) | <i>Staphylococcus epidermidis</i> , (ATCC 51625);
(Resistant to Methicillin [MRSE]) | <i>Streptococcus pneumoniae</i> , (ATCC 51915);
(Resistant to Penicillin [PRSP]) |
| <i>Staphylococcus aureus</i> , (ATCC 33591)
(Resistant to Methicillin [MRSA]) | | |

Viruses (*Virucidal Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|---|---|--------------------------------------|
| Adenovirus Type 2, (VR-846) | Influenza Type A ₂ (Hong Kong), (VR-544) | Respiratory syncytial virus, (VR-26) |
| Herpes Simplex Type 1 (HSV-1), (VR-733) | Poliovirus Type 1, (VR-192) | Rotavirus, (Strain WA) |
| Herpes Simplex Type 2 (HSV-2), (VR-734) | Rhinovirus Type 39, (VR-340) | |

Kills Hepatitis B (HBV) and HIV-1 (AIDS virus) (HTLV-III_B) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.

(Veterinary viruses:)

- | | | |
|------------------------------|--------------------------------|------------------------|
| Avian Influenza, (VR-2072) | Feline panleukopenia, (VR-648) | Pseudorabies, (VR-135) |
| Canine parvovirus, (VR-2017) | | |

Fungi/Yeast (Fungicidal and Yeast Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|---|--|--|
| <i>Aspergillus niger</i> , (ATCC 16404) | <i>Candida albicans</i> , (ATCC 18804) | <i>Trichophyton mentagrophytes</i> , (ATCC 9533) |
|---|--|--|

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Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 5% serum load and 10 minutes contact time DISINFECTANT D.C. 100 kills the following:

Antibiotic-Resistant (Strains of) Bacteria (Antibiotic-Resistant Bactericidal Activity) - kills on hard non-porous inanimate surfaces:

Staphylococcus aureus, (ATCC 33592)
(Resistant to Methicillin [MRSA])

Staphylococcus aureus, (CDC HIP 5836);
(Intermediate Vancomycin Resistance (VISA))

Viruses (*Virucidal Activity) – kills on hard non-porous inanimate surfaces:

Canine Parvovirus

Poliovirus Type 1

Tuberculocidal Activity – This product exhibits disinfectant efficacy against *Mycobacterium tuberculosis* (BCG) in 10 minutes at 20° C when used as directed on previously cleaned hard non-porous environmental surfaces.

Fungicidal Activity - This product is fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes* (the fungus which causes Athlete's Foot Fungus) in 3 minutes when used as directed on hard surfaces found in bathrooms, shower stalls, locker rooms, or other clean, non-porous, hard surfaces commonly contacted by bare feet.

Mold/Mildew Mildewstatic Activity - controls and prevents (Inhibits) the growth of mold and mildew: *Aspergillus niger* (ATCC 6275) (and the odors caused by them when applied to hard, non-porous environmental surfaces).

Non-Food Contact Surface Sanitizer for hard non-porous surfaces – effective against *Enterobacter aerogenes* (ATCC 15038) and *Staphylococcus aureus* (ATCC 6538) in 30 seconds.

Malodor(s) (Activity) (Counteractancy) – eliminates (destroys) odors and odor-causing bacteria in restroom areas, behind and under sinks and counters, and storage areas (and other places where bacterial growth can cause malodors).

DIRECTIONS FOR USE

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

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 contact with the blood stream 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 maybe used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

Disinfection, Deodorizing and Cleaning - Remove gross filth or heavy soil prior to application of the product. Hold container six to eight inches from surface to be treated. Spray area until it is covered with the solution. Allow product to saturate the surface and remain wet for 3 minutes. No scrubbing is necessary. Wipe off with a clean cloth, mop or sponge. The product will not leave grit or soap scum. A rinse with potable water is required for surfaces in direct contact with food.

One-step cleaning and disinfection of toilet bowls and urinals: Remove water from bowl by forcing water over trap with a swab mop applicator. Press swab mop against side of bowl to remove excess water from applicator. Apply 1 to 2 ounces of this product evenly, allowing sufficient time for product to cover entire surface of bowl for maximum cleaning. Swab bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand 3 minutes and flush.

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For use as a (General) Cleaner and/or Deodorizer:

1. Hold bottle upright.
2. Spray evenly over surface to be cleaned.
3. Wipe with clean cloth, sponge or paper towel. For heavily soiled areas or stubborn spots, let solution stay on the surface longer before wiping.

For use as a Cleaner/Disinfectant:

1. Spray evenly over surface. Be sure to wet all surfaces thoroughly.
2. Let DISINFECTANT D.C. 100 remain on surface for three (3) minutes.
3. Wipe with clean cloth, sponge or paper towel.
4. For heavily soiled areas, thoroughly clean surface prior to disinfecting.

Note: All food contact surfaces such as kitchen counters and tables used for food preparation, cutting boards, appliances and sinks must be rinsed thoroughly with potable water after disinfecting. This product must not be used to clean the following surfaces: utensils, glassware, and dishes.

For use in Food Processing Plants:

1. Before using DISINFECTANT D.C. 100 in food processing areas, food products and packaging materials must be removed from the room or carefully protected.
2. Spray evenly over surface. Be sure to wet all surfaces thoroughly.
3. Let DISINFECTANT D.C. 100 remain on surface for three (3) minutes.
4. Wipe with clean cloth, sponge or paper towel.
5. For heavily soiled areas, thoroughly clean surface prior to disinfecting.
6. When disinfecting food contact surfaces such as kitchen counters and tables used for food preparation, cutting boards, appliances and sinks, then thoroughly rinse surfaces with potable water. This product must not be used to clean the following surfaces: utensils, glassware, and dishes.

For use as a Non-Acid Cleaner/Disinfectant for Toilet Bowls and Urinals:

1. Pre-clean heavily soiled areas.
2. With swab applicator, remove water from bowl by forcing water over trap.
3. Press swab applicator against side of bowl to remove excess water.
4. Apply DISINFECTANT D.C. 100 to swab applicator, cloth, mop, sponge or directly to surface.
5. Swab entire surface area especially under the rim.
6. Allow entire surface to remain wet for three (3) minutes.
7. Flush toilet or urinal and rinse swab applicator thoroughly.

To Sanitize Non-Food Contact Surfaces:

1. Apply DISINFECTANT D.C. 100 until thoroughly wet.
2. Let stand 30 seconds.
3. Then wipe.
4. Not for use on food contact surfaces or on food preparation areas.

To Control Mold and Mildew:

1. Apply DISINFECTANT D.C. 100 to hard, non-porous inanimate surfaces.
2. Allow to air dry.
3. Repeat application weekly or when growth reappears.

To Kill Fungi:

1. Pre-clean heavily soiled areas.
2. Apply DISINFECTANT D.C. 100 to hard, non-porous inanimate surfaces.
3. Allow surface to remain wet for three (3) minutes.
4. Wipe surfaces (and let air dry).

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For Use For Treatment of Animal Housing Facilities:

1. Remove all animals and feed from areas being treated.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities occupied or traversed by animals.
2. Empty or cover all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap and rinse with water.
5. Apply DISINFECTANT D.C. 100 to floors, walls, cages and other washable hard, non-porous inanimate surfaces. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. To disinfect, all surfaces must remain wet for three (3) minutes.
6. Do not house animals or employ equipment until product has dried.
7. For disinfection of feed racks, troughs, automatic feeders, fountains and watering appliances scrub with use-solution, let stand three (3) minutes. Then thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.

***DISINFECTANT D.C. 100 kills HBV and HIV-1 in one minute on pre-cleaned inanimate surfaces/objects previously soiled with blood/body fluids in health care settings (Hospitals, Nursing Homes) and 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 Hepatitis B Virus and Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).**

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HBV and HIV-1 OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

Personal Protection: Disposable latex or vinyl gloves, gowns, face masks, or eye coverings as appropriate, must be worn during all cleaning of body fluids, blood, and decontamination procedures.

Cleaning Procedures: Blood and body fluids must be thoroughly cleaned from surfaces and objects before application of DISINFECTANT D.C. 100.

Contact Time: Allow surface to remain wet for 1 minute to kill HBV and HIV-1. For all other organisms allow surface to remain wet for 3 minutes.

Disposal of Infectious Material: Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

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 eye.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IN CASE OF EMERGENCY, CALL A POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.

1-800-851-7145

Have the product container or label with you when calling a Poison Control Center or doctor or going in for treatment.

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(Note to Agency: Text appearing in parenthesis or brackets is done to show optional text.)

(For use with containers larger than one gallon)

STORAGE AND DISPOSAL

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

Pesticide Storage - Store in original container and place in locked storage area. Store in a dry place no lower in temperature than 50°F or higher than 120°F.

Pesticide Disposal - Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(For use with containers one gallon or less)

STORAGE AND DISPOSAL

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

Storage - Store in original container and place in locked storage area. Store in a dry place no lower in temperature than 50°F or higher than 120°F.

Container Disposal - Do not reuse container. Wrap container and put in trash.

ENVIRONMENTAL HAZARDS (For containers of 5 gallons or 50 lbs. or more)

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 agency 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.

EPA Reg. No. 70627-2

EPA Est.

Lot number suffix A or B indicates Manufacturing Site

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DISINFECTANT D.C. 100 REFERENCE SHEET

When used as directed, DISINFECTANT D.C. 100 (contains 2100 ppm of active germicide making it) (is) highly effective against a wide variety (broad-spectrum) of pathogenic microorganisms (including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew. See reference sheet (enclosed in each case) for a complete list of organisms).

Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 10% serum load and 3 minute contact time (unless otherwise noted); DISINFECTANT D.C. 100 kills the following:

Bacteria (Bactericidal Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|---|---|---|
| <i>Pseudomonas aeruginosa</i> , (ATCC 15442) | <i>Enterococcus faecalis</i> , (ATCC 19433) | <i>Proteus mirabilis</i> , (ATCC 33583) |
| <i>Staphylococcus aureus</i> , (ATCC 6538) | formerly known as <i>Streptococcus faecalis</i> | <i>Proteus vulgaris</i> , (ATCC 13315) |
| <i>Salmonella choleraesuis</i> , (ATCC 10708) | <i>Enterococcus hirae</i> , (ATCC 10541) | <i>Pseudomonas fluorescens</i> , (ATCC 13525) |
| <i>Acinetobacter calcoaceticus</i> , (ATCC 23055) | <i>Escherichia coli</i> , (ATCC 11229) | <i>Salmonella enteritidis</i> , (ATCC 4931) |
| <i>Burkholderia cepacia</i> , (ATCC 25416) | <i>Escherichia coli</i> 0157:H7, (ATCC 43890) | <i>Salmonella schottmuelleri</i> , (ATCC 10719) |
| formerly known as <i>Pseudomonas cepacia</i> | <i>Haemophilus influenza</i> , (ATCC 10211) | <i>Salmonella typhi</i> , (ATCC 6539) |
| <i>Brevibacterium ammoniagenes</i> , (ATCC 6872) | <i>Klebsiella pneumoniae</i> , (ATCC 13883) | <i>Serratia liquefaciens</i> , (ATCC 35551) |
| <i>Campylobacter fetus</i> , (ATCC 27374) | <i>Legionella pneumophila</i> , (ATCC 33153) | <i>Shigella dysenteriae</i> , (ATCC 13313) |
| <i>Campylobacter jejuni</i> , (ATCC 29428) | <i>Listeria monocytogenes</i> , (ATCC 15313) | <i>Shigella flexneri</i> , (ATCC 9380) |
| <i>Citrobacter freundii</i> , (ATCC 8090) | <i>Micrococcus luteus</i> , (ATCC 4698) | <i>Streptococcus pyogenes</i> ("Strep A" - |
| <i>Enterobacter aerogenes</i> , (ATCC 13048) | <i>Morganella morganii</i> , (ATCC 25830) | Flesh Eating Strain), (clinical isolate) |
| <i>Enterobacter agglomerans</i> , (ATCC 27155) | <i>Neisseria gonorrhoea</i> , (ATCC 43069) | <i>Vibrio cholera</i> , (ATCC 11623) |
| | <i>Pasteurella multocida</i> , (ATCC 43137) | <i>Yersinia enterocolitica</i> , (ATCC 23715) |

Antibiotic-Resistant (Strains of) Bacteria (Antibiotic-Resistant Bactericidal Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|--|--|---|
| <i>Enterococcus faecalis</i> , (ATCC 51299);
(Resistant to Vancomycin [VRE]) | <i>Staphylococcus epidermidis</i> , (ATCC 51625);
(Resistant to Methicillin [MRSE]) | <i>Streptococcus pneumoniae</i> , (ATCC 51915);
(Resistant to Penicillin [PRSP]) |
| <i>Staphylococcus aureus</i> , (ATCC 33591)
(Resistant to Methicillin [MRSA]) | | |

Viruses (*Virucidal Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|---|---|--------------------------------------|
| Adenovirus Type 2, (VR-846) | Influenza Type A ₂ (Hong Kong), (VR-544) | Respiratory syncytial virus, (VR-26) |
| Herpes Simplex Type 1 (HSV-1), (VR-733) | Poliovirus Type 1, (VR-192) | Rotavirus, (Strain WA) |
| Herpes Simplex Type 2 (HSV-2), (VR-734) | Rhinovirus Type 39, (VR-340) | |

Kills Hepatitis B (HBV) and HIV-1 (AIDS virus) (HTLV-III_B) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.

(Veterinary viruses):

- | | | |
|------------------------------|--------------------------------|------------------------|
| Avian Influenza, (VR-2072) | Feline panleukopenia, (VR-648) | Pseudorabies, (VR-135) |
| Canine parvovirus, (VR-2017) | | |

Fungi/Yeast (Fungicidal and Yeast Activity) - kills on hard non-porous inanimate surfaces:

- | | | |
|---|--|--|
| <i>Aspergillus niger</i> , (ATCC 16404) | <i>Candida albicans</i> , (ATCC 18804) | <i>Trichophyton mentagrophytes</i> , (ATCC 9533) |
|---|--|--|

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Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 5% serum load and 10 minutes contact time DISINFECTANT D.C. 100 kills the following:

Antibiotic-Resistant (Strains of) Bacteria (Antibiotic-Resistant Bactericidal Activity) - kills on hard non-porous inanimate surfaces:

Staphylococcus aureus, (ATCC 33592)
(Resistant to Methicillin [MRSA])

Staphylococcus aureus, (CDC HIP 5836);
(Intermediate Vancomycin Resistance (VISA))

Viruses (*Virucidal Activity) – kills on hard non-porous inanimate surfaces:

Canine Parvovirus

Poliovirus Type 1

Tuberculocidal Activity – This product exhibits disinfectant efficacy against *Mycobacterium tuberculosis* (BCG) in 10 minutes at 20° C when used as directed on previously cleaned hard non-porous environmental surfaces.

Fungicidal Activity - This product is fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes* (the fungus which causes Athlete's Foot Fungus) in 3 minutes when used as directed on hard surfaces found in bathrooms, shower stalls, locker rooms, or other clean, non-porous, hard surfaces commonly contacted by bare feet.

Mold/Mildew Mildewstatic Activity - controls and prevents (inhibits) the growth of mold and mildew: *Aspergillus niger* (ATCC 6275) (and the odors caused by them when applied to hard, non-porous environmental surfaces).

Non-Food Contact Surface Sanitizer for hard non-porous surfaces – effective against *Enterobacter aerogenes* (ATCC 15038) and *Staphylococcus aureus* (ATCC 6538) in 30 seconds.

Malodor(s) (Activity) (Counteractancy) – eliminates (destroys) odors and odor-causing bacteria in restroom areas, behind and under sinks and counters, and storage areas (and other places where bacterial growth can cause malodors).

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