

70627-10

11-3-2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

S.C. Johnson Commercial Markets, Inc.  
8310 16<sup>th</sup> Street, MS 675  
Sturtevant, WI 53177-0902

NOV 03 2000

Subject: Johnson's Forward Cleaner  
EPA Registration No. 70627-10  
Amendment Date: 3/24/00  
EPA Receive Date: 3/29/00

Attention: Ms. Lisa Amadio

The amendment referenced above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A) to update the master label, add alternate formulations, and add additional organisms is acceptable provided you address the following recommendations before you release this product for shipment.

Product Chemistry

The product chemistry data, MRID Nos. 450781-18 thru 450781-19, satisfies the product chemistry data guideline requirements in Series 61, 62, and 63. The storage stability study, 450781-20

The Confidential Statements of Formulas for alternate formulations #21135, #21136, #21927, #21928, #21929, #21930 dated 3/24/00 are acceptable. They are in compliance with PR Notice 91-2 and in agreement with the label.

Acute Toxicology

The study, MRID No. 451050-01, satisfies the guideline requirement for acute dermal toxicity (81-2) in the rabbit. Since the LD<sub>50</sub> was determined as greater than 2,000 mg/kg, Johnson's Forward Cleaner is classified Toxicity Category III.

The study, MRID No. 450781-21, satisfies the guideline requirement for primary eye irritation (81-4) in the rabbit. Since the study demonstrated that Forward Cleaner was slightly irritating which cleared in two days, Toxicity Category III for primary eye irritation was assigned for the use dilution precautionary language.

CONCURRENCES							
SYMBOL	75700						
SURNAME	Campbell						
DATE	11/2/00						

The study, MRID No. 450781-22, satisfies guideline requirement for primary skin irritation (81-5) in the rabbit. The study showed very slight erthema and edema which remained on one animal test site from day 2 through 4, but by day 14 all irritation cleared. Toxicity Category IV was assigned for primary skin irritation use dilution precautionary statements.

Use-Dilution Precautionary Statements:

*After product is diluted, Causes moderate eye irritation. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after handling.*

First Aid Statements

The "First Aid" Statements for the concentrate and use dilution will need to be updated according to PR Notice 2000-3.

**Efficacy**

In regard to the seventeen efficacy studies, you should refer to the attached Data evaluation record.

Efficacy Label Recommendations:

1. The studies, MRID No. 450781-06 and 450781-09, are unacceptable because documentation was not provided to demonstrate the antibiotic resistance of *Streptococcus pneumoniae* -PRSP (ATCC 51915) and *Enterococcus faecalis*-VRE (ATCC 51299). These organisms will need to be deleted from the label.
2. *Pseudomonas cepacia* and *Burkeholderia cepacia* are the same organism. If you would like to list the old micro-organism name, you may do so by placing it after the current designation; for example *Burkeholderia cepacia* (ATCC 25416) formerly *Pseudomonas cepacia*.

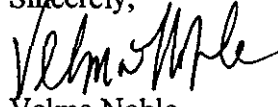
**Label Recommendations**

1. Delete the sites, "bowl bushes" and "bowl mops," from the second paragraph under general uses, hospitals/health care facilities, and first paragraph under non-acid bowl[& bathroom] disinfectant cleaner.
2. Delete the term, "typically" from the phrase "typically associated with" from the second paragraph under hospitals/health care facilities, animal housing facilities, and non-acid bowl [& bathroom] disinfectant cleaner.
3. Delete the site, "[hospital] medical equipment [& devices], from the second paragraph under hospitals/health care facilities.

4. Add the statement, "Do not use on glasses, dishes, and utensils," to the second paragraph under food service.
5. Delete the phrase, "a variety of", from the first paragraph under public restrooms.
6. On page 4 and 10, the paragraph, "When used as directed .... inanimate surfaces" should be revised to include the specific surfaces that *Trichophyton mentagrophytes* are commonly found such as showers, locker room benches, restroom floors.

A stamped label is enclosed for your records. Please submit two (2) copies of your final printed labeling before you release this product for shipment. If you have any questions regarding this letter, please contact Jacqueline Campbell at (703) 308-6416.

Sincerely,



Velma Noble

Product Manager (31)

Regulatory Management Branch I

Antimicrobials Division (7510C)

# Johnson Wax PROFESSIONAL

## JOHNSON'S FORWARD® CLEANER (GENERAL PURPOSE) DISINFECTANT CLEANER

Bactericidal • Fungicidal • Deodorizing (Odor Counteractant) • \*Virucidal

Disinfects in up to 500 ppm hard water and 10% serum load • Non-Acid Bowl (Cleaner) (Disinfectant) • Non-Acid Bathroom (Cleaner) (Disinfectant) • Non-Acid Shower Room (Cleaner) (Degreaser) (Disinfectant) • (Cleans the dirt and leaves the shine.) • (Cleans (and Deodorizes) in One Step) • (Leaves Toilet Bowls Sparkling Clean) • (Leaves the Bathroom Sparkling Clean) • (Cleans without Harmful Acid Fumes) • (Disinfects as it Cleans) • (Contains no abrasives (Non-Abrasive))

(Fragrance Free Formula), (Unscented),  
((Fresh) [Lemon] [Pine] [Mint] [Spring Fresh] [Floral] [Citrus] [Powder] (Scent) (Fragrance))

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

**ACTIVE INGREDIENT:**

n-Alkyl (50% C<sub>14</sub>, 40% C<sub>12</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride..... 1.60%

**INERT INGREDIENTS:**..... 98.40%

**TOTAL:**..... 100.00%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 03 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

EPA Reg. No. 70627-10

EPA Est. No.

Lot number suffix (A) or (B) indicates

Appropriate establishment number.

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 eliminated by JOHNSON'S FORWARD® CLEANER (this product).

Net Contents: \_\_\_\_\_

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 03 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70627-10

(Product of USA)

3/23/00  
Page 1 of 30  
EPA Reg. No. 70627-10

**(MARKETING CLAIMS):** (Note to EPA - This text will only appear on the appropriate container.)

**ACCUMIX™ CONTAINERS** (32 oz. container) - ACCUMIX™. (Remove [Loosen] cap). Squeeze. (Squeeze bottle.) Measure. (Measure amount). Pour. (Pour contents). (Designed) For use with 5 gallon Buddy Jugs™ (the BIG BUDDY™ [ACCUTAINER™] System). JOHNSON'S FORWARD® CLEANER can also be diluted into pre-cleaned and properly labeled 5-gallon BUDDY JUG™ (ACCUTAINERS™) (Dispensing Containers) for dispensing as needed.

**SOLUTIONS CENTER™** (64 oz. containers) - For use with (JOHNSON™) (PRISM™) (DRACKETT™) (SOLUTIONS CENTER™) Brand Dispensing Equipment. Eliminates Mixing. The Accurate Solution To Cleaner Dilution. Disinfectant Cleaning With The Convenience Of (SOLUTIONS CENTER™). (SOLUTIONS CENTER™) (This) packaging offers) Reduced Exposure To Concentrate Due To Closed Transfer System. Solutions To Go!

**J-FILL™ DISPENSING SYSTEMS** (84.5 oz. containers) - For use with (JOHNSON™) (PRISM™) (DRACKETT™) (J-FILL™) Brand Dispensing Equipment. Eliminates Mixing. The Accurate Solution To Cleaner Dilution. Disinfectant Cleaning With The Convenience Of J-FILL™. J-FILL™ (This) packaging offers) Reduced Exposure To Concentrate Due To Closed Transfer System. Solutions To Go!

**ACCUPACK™ CONTAINERS** (Pre-measured packets) - Pre-Measured [Tear-Open] Packets.

**(General Uses)**

JOHNSON'S FORWARD® CLEANER cleans quickly by removing dirt, grime, body oils and other common soils. This product is for use 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, restrooms, food service establishments (restaurants).

It is designed for use on (Use daily on) the following hard, non-porous environmental surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, aluminum, laminated surfaces and baked enamel surfaces associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, bowl brushes, (bowl mops), sinks, shower rooms and locker rooms areas - (food and non-food contact) surface where disinfection is required. A potable water rinse is required for food contact surfaces. Do not use on glasses, dishes, and utensils.

**(Hospitals/Health Care Facilities)**

JOHNSON'S FORWARD® CLEANER is a one-step (hospital-use) germicidal (disinfectant) cleaner and deodorant (odor-counteractant) (odor neutralizer) designed for general cleaning, (and) disinfecting, (deodorizing) (of) hard, non-porous environmental surfaces. JOHNSON'S FORWARD® CLEANER cleans quickly by removing dirt, grime, food residue, body oils, dead skin, 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.

JOHNSON'S FORWARD® CLEANER cleans, disinfects and deodorizes (hard, non-porous environmental hospital (medical) surfaces) in one step (with no rinsing required). Its non-abrasive formula is designed for use on (Use daily on) the following hard, non-porous environmental surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, laminated surfaces and baked enamel surfaces typically associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, bowl brushes, (bowl mops,) 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: wheelchairs, [hospital] [patient] bed rails and linings, wash basins, bedpans, [and] [hospital] medical equipment [& devices,]) - any washable (food and non-food contact) surface (where disinfection is required). A potable water rinse is required when disinfecting food contact surfaces. Do not use on glasses, dishes, and utensils.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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Under the Federal Insecticide,  
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**(Food Service:)**

JOHNSON'S FORWARD® CLEANER 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 environmental surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, aluminum, stainless steel, brass, copper, laminated surfaces and baked enamel surfaces (associated with floors, walls, ceilings, tables, chairs, countertops, fixtures, glazed tile, toilets, (toilet bowls), urinals, sinks found in food establishments, (restaurants), (commercial kitchens) & restrooms. A potable water rinse is required for food contact surfaces.

**(Animal Housing Facilities:)**

JOHNSON'S FORWARD® CLEANER cleans by removing dirt, grime, 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.

JOHNSON'S FORWARD® CLEANER cleans, disinfects and deodorizes (hard, non-porous environmental 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 surfaces: plated or stainless steel, aluminum, chrome, glazed porcelain, glazed tile, laminated surfaces (typically associated with floors, walls, countertops, cages, kennels, animal equipment) found in (barns, pens and stalls) animal housing facilities.

**(Public Restrooms:)**

JOHNSON'S FORWARD® CLEANER is a one-step disinfectant cleaner and deodorant (odor-counteractant) (odor-neutralizer) designed for general cleaning, (and) (disinfecting) (deodorizing) on (of) a variety of hard, non-porous environmental surfaces.

JOHNSON'S FORWARD® CLEANER cleans, disinfects and deodorizes surfaces by killing odor-causing germs. Its non-abrasive formula is designed for use on (restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless steel and plastic surfaces typically associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms.

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

JOHNSON'S FORWARD® CLEANER is a (concentrated) non-acid (bowl and) bathroom cleaner which cleans, disinfects and deodorizes in one easy step. It cleans, disinfects and deodorizes toilet bowls, urinals, bowl brushes (bowl mops), rims, sinks, sink basins, faucets, tubs, glazed tiles, glazed ceramic, glazed porcelain, chrome, stainless steel, and all hard non-porous, washable surfaces found in the bathroom (restroom) (in the presence of organic soil).

JOHNSON'S FORWARD® CLEANER 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. Its non-abrasive formula is designed for use (Use it daily) on ([hard, non-porous environmental] restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless steel and plastic surfaces typically associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms.

**(For Refilling Concentrate From Large Containers Into Smaller Containers:)**

JOHNSON'S FORWARD® CLEANER may be used to fill and refill clean, properly labeled containers for dilution elsewhere within your facility. 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. To refill, simply pour (or pump) product from the larger container directly into the smaller one being careful not to spill any product. Keep both containers sealed when not in use. When ready for use, mix product according to the

Directions for Use.  
ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 03 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
amended  
registered under EPA Reg. No. 70627-10

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**(CLAIMS:)**

When used as directed at a 1:32 dilution (4 oz. per gallon of water), JOHNSON'S FORWARD® CLEANER is highly effective against a wide variety (broad-spectrum) of pathogenic microorganisms. Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 500 ppm hard water, 10% serum load and 10 minutes contact time JOHNSON'S FORWARD® CLEANER kills the following:

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

- |  |  |   |
|--|--|---|
| <i>Pseudomonas aeruginosa</i> , (ATCC 15442)                     | <i>Klebsiella pneumoniae</i> , (ATCC 13883)    | <i>Salmonella typhimurium</i> , (ATCC 13311)  |
| <i>Staphylococcus aureus</i> , (ATCC 6538)                       | <i>Legionella pneumophila</i> , (ATCC 33153)   | <i>Serratia grimesii</i> , (ATCC 14460)   |
| <i>Salmonella choleraesuis</i> , (ATCC 10708)                    | <i>Listeria monocytogenes</i> , (ATCC 15313)   | <i>Serratia marcescens</i> , (ATCC 9103)  |
| <i>Bordetella bronchiseptica</i> , (ATCC 10580)                  | <i>Micrococcus luteus</i> , (ATCC 4698)        | <i>Shigella dysenteriae</i> , (ATCC 29026)  |
| <i>Burkholderia cepacia</i> , (ATCC 25416)                       | <i>Micrococcus sedentarius</i> , (ATCC 27573)  | <i>Shigella flexneri</i> , (ATCC 25875)   |
| <i>Campylobacter fetus</i> , (ATCC 27374)                        | <i>Morganella morganii</i> , (ATCC 25830)      | <i>Shigella sonnei</i> , (ATCC 25931)   |
| <i>Citrobacter freundii</i> , (ATCC 8090)                        | <i>Neisseria gonorrhoeae</i> , (ATCC 43069)    | <i>Staphylococcus aureus</i> , (ATCC 25923)   |
| <i>Enterobacter aerogenes</i> , (ATCC 13048)                     | <i>Pasteurella multocida</i> , (ATCC 43137)    | <i>Staphylococcus aureus</i> (Toxic Shock), (ATCC 33586)                            |
| <i>Enterobacter agglomerans</i> , (ATCC 27155)                   | <i>Proteus mirabilis</i> , (ATCC 9240)         | <i>Staphylococcus epidermidis</i> , (ATCC 14990)                                    |
| <i>Enterobacter cloacae</i> , (ATCC 23355)                       | <i>Proteus vulgaris</i> , (ATCC 13315)         | <i>Staphylococcus haemolyticus</i> , (ATCC 29970)                                   |
| <i>Enterobacter gergoviae</i> , (ATCC 33028)                     | <i>Pseudomonas cepacia</i> , (ATCC 25416)      | <i>Staphylococcus saprophyticus</i> , (ATCC 15305)                                  |
| <i>Enterobacter liquefaciens</i> , (ATCC 14460)                  | <i>Pseudomonas diminuta</i> , (ATCC 11568)     | <i>Staphylococcus species</i> , (ATCC 12715)  |
| <i>Enterococcus faecalis</i> , (ATCC 19433)                      | <i>Pseudomonas fluorescens</i> , (ATCC 13525)  | <i>Streptococcus agalactiae</i> , (ATCC 13813)                                      |
| <i>Enterococcus hirae</i> , (ATCC 10541)                         | <i>Pseudomonas putida</i> , (ATCC 12633)       | <i>Streptococcus mutans</i> , (ATCC 25175)  |
| <i>Escherichia coli</i> ( <i>E. coli</i> ), (ATCC 11229)         | <i>Pseudomonas stutzeri</i> , (ATCC 17588)     | <i>Streptococcus pyogenes</i> , (ATCC 19615)  |
| <i>Escherichia coli</i> ( <i>E. coli</i> ) 0157:H7, (ATCC 43890) | <i>Salmonella enteritidis</i> , (ATCC 13076)   | <i>Streptococcus pyogenes</i> ("Strep A" - Flesh Eating Strain), (clinical isolate) |
| <i>Flavobacterium meningosepticum</i> , (ATCC 13253)             | <i>Salmonella gallinarum</i> , (ATCC 9184)     | <i>Vibrio cholera</i> , (ATCC 11623)  |
| <i>Hafnia alvei</i> , (ATCC 13337)                               | <i>Salmonella schottmueleri</i> , (ATCC 10719) | <i>Yersinia enterocolitica</i> , (ATCC 9610)  |
| <i>Klebsiella oxytoca</i> , (ATCC 13182)                         | <i>Salmonella typhi</i> , (ATCC 6539)          |   |

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

- |  |  |   |
|--|--|---|
| <i>E. coli</i> , (ATCC 55244); (resistant to Kanamycin)                      | <i>Klebsiella oxytoca</i> , (ATCC 15764); (resistant to Ampicillin, Dihydrostreptomycin)             | <i>Staphylococcus aureus</i> (MRSA, GRSA), (ATCC 33592 & 14154); (resistant to Methicillin [MRSA], Gentamicin [GRSA], Penicillin, Erythromycin, Streptomycin, Tetracycline) |
| <i>E. coli</i> 0157:H7, (ATCC 47041); (resistant to Tetracycline)            | <i>Micrococcus luteus</i> , (ATCC 14452); (resistant to Dihydrostreptomycin, Neomycin, Streptomycin) | <i>Streptococcus pneumoniae</i> , (ATCC 51915) resistant to Penicillin [PRSP]   |
| <i>Enterococcus faecalis</i> , (ATCC 51299); (resistant to Vancomycin [VRE]) | <i>Micrococcus sedentarius</i> , (ATCC 27573) (resistant to Methicillin)                             |   |

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

- |  |  |  |
|--|--|--|
| <i>HIV-1</i> ( <i>AIDS virus</i> )**, (HTLV-III <sub>B</sub> ) | <i>Herpes simplex Type 2</i> , (VR-734)                            | <i>Respiratory syncytial virus</i> , (VR-26) |
| <i>Cytomegalovirus</i> , (VR-538)                              | <i>Influenza Type A<sub>2</sub></i> ( <i>Hong Kong</i> ), (VR-544) | <i>Vaccinia virus</i> , (VR-119)             |
| <i>Herpes simplex Type 1</i> , (VR-733)                        | <i>Parainfluenza Type 3</i> , (VR-93)                              |  |

\*\*Test performed using 1 minute contact time.

**(Veterinary viruses:)**

- |   |                                      |   |
|---|--------------------------------------|---|
| <i>Avian Infectious bronchitis</i> (IBV), (VR-22) | <i>Chlamydia psittaci</i> , (VR-125) | <i>Transmissible gastroenteritis virus</i> (TGE), (U of Minn. Strain) |
| <i>Avian influenza</i> , (VR-2072)                |                                      |   |

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

- |   |   |  |
|---|---|--|
| <i>Geotrichum candidum</i> , (ATCC 18301) | <i>Trichophyton mentagrophytes</i> (athlete's foot fungus), (ATCC 9533) | <i>Zygosaccharomyces bailii</i> , (ATCC 56075) |
|---|---|--|

When used as directed at a 1:43 dilution (3 oz. per gallon of water) in the presence of 200 ppm hard water, 10% serum load, JOHNSON'S FORWARD® CLEANER, kills *Trichophyton mentagrophytes* (athlete's foot fungus)(ATCC 9533) in 10 minutes and *HIV-1* (*AIDS virus*)(HTLV-III<sub>B</sub>) in 1 minute on hard non-porous inanimate surfaces.

**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).**

ACCEPTED

NOV 03 2000

U.S. Environmental Protection Agency  
Washington, D.C. 20460

70627-10

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

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[NOTE TO AGENCY: All unbolded italicized phrases, which appear in the Directions for Use, are explanatory and are not to be considered label text. They are included for clarity to the agency only.]

**DIRECTIONS FOR USE:**

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

(This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.)

JOHNSON'S FORWARD® CLEANER can be applied by mop, sponge, cloth, paper towel, (hand pump) trigger sprayer, tank sprayer, (mechanical spray device,) auto-scrubber or (broadcast) foam gun (device). Change cloth, sponges or towels frequently to avoid redeposition of soil. For disinfection, all surfaces must remain wet for 10 minutes.

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**For 1:32 Dilution**

**To Prepare Use Solution:** Add the product at 4 oz. per gallon of water (1:32).

(Note to EPA: The directions that appear for specific container sizes will be substituted for the sentence above only on that container size.)

**ACCUMIX™ CONTAINERS** (32 oz. container) - Add the product at 4 oz. per gallon of water (1:32).

**SOLUTIONS CENTER™** (64 oz. containers) - Remove cap and insert cartridge into dispenser. Note: See dispenser instructions for proper cartridge placement. Once cartridge is in place, (squeeze the handle) (or) (press the button) to dispense a 1:32 solution into a bucket, bottle, scrubber or other container.

**J-FILL™ DISPENSING SYSTEMS** (84.5 oz. containers) - Remove cap and insert cartridge into dispenser. Note: See dispenser instructions for proper cartridge placement. Once cartridge is in place, (squeeze the handle) (or) (press the button) to dispense a 1:32 solution into a bucket, bottle, scrubber or other container.

**ACCUPACK™ CONTAINERS** (Pre-measured packets) - (Simply) open and pour contents into xx gallons of water (for a 1:32 dilution). Keep packets in box until ready to use. (Pour contents of packet into xx gallons of water for a 1:32 dilution.)

**For Use as a (One-Step) Cleaner/Disinfectant:**

1. Pre-clean heavily soiled areas.
2. Apply Use Solution to hard, non-porous environmental surfaces.
3. All surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces (and let air dry).

Note - Rinsing is not necessary unless floors are to be coated with finish or restorer. All food contact surfaces such as appliances and kitchen countertops must be rinsed with potable water. Do not use on glassware, utensils, or dishes.

For food processing plants/federally inspected meat and poultry establishments: Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**NOV 03 2000**

Under the Federal Insecticide,  
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amended, for the pesticide,  
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**To Kill Fungi:**

Pre-clean heavily soiled areas. Apply Use Solution to hard, non-porous environmental surfaces. Allow surface to remain wet for ten (10) minutes. Wipe surfaces (and let air dry).

**For Use as a Non-Acid Bowl Cleaner/Disinfectant in Toilet Bowls from Concentrate:**

1. Pre-clean heavily soiled areas.
2. Pour 4 oz. of product (1 packet) into toilet bowl.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

**For Use as a Non-Acid Bowl Cleaner/Disinfectant in Toilet Bowls [and Urinals] from Use-Dilution:**

1. Pre-clean heavily soiled areas.
2. Empty toilet bowls by forcing water through the trap. Apply Use Solution to exposed surfaces in toilet bowls and urinals.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet or urinal and rinse swab applicator thoroughly.

**For Use To Clean and Disinfect Shower Rooms, Locker Rooms and Other Large, Open Areas with Floor Drains:**

1. Pre-clean heavily soiled areas.
2. Apply Use Solution to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for ten (10) minutes.  
*Special instructions for foam guns: Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. Note: See foam gun instructions for more information. Make sure setting is set for a 1:32 dilution. Once in place, squeeze the handle to dispense foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes.*
3. Scrub using a deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

**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.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap and rinse with water.
5. Apply fresh use solution to floors, walls, cages and other washable hard, non-porous environmental 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 ten (10) minutes.
6. Do not house animals or employ equipment until product has dried.
7. For feed racks, troughs, automatic feeders, fountains and watering appliances scrub with use-solution, let stand ten (10) minutes. Then thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.

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Under the Federal Insecticide,  
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**For 1:43 Dilution**

**To Prepare Use Solution:** Add the product at 3 oz. per gallon of water (1:43).

(Note to EPA: The directions that appear for specific container sizes will be substituted for the sentence above only on that container size.)

**ACCUMIX™ CONTAINERS** (32 oz. container) - Add the product at 3 oz. per gallon of water (1:43).

**SOLUTIONS CENTER™** (64 oz. containers) - Remove cap and insert cartridge into dispenser. Note: See dispenser instructions for proper cartridge placement. Once cartridge is in place, (squeeze the handle) (or) (press the button) to dispense a 1:43 solution into a bucket, bottle, scrubber or other container.

**J-FILL™ DISPENSING SYSTEMS** (84.5 oz. containers) - Remove cap and insert cartridge into dispenser. Note: See dispenser instructions for proper cartridge placement. Once cartridge is in place, (squeeze the handle) (or) (press the button) to dispense a 1:43 solution into a bucket, bottle, scrubber or other container.

**To Kill Fungi:**

Pre-clean heavily soiled areas. Apply Use Solution to hard, non-porous environmental surfaces. Allow surface to remain wet for ten (10) minutes. Wipe surfaces (and let air dry).

**\* JOHNSON'S FORWARD® CLEANER kills HIV-1 on pre-cleaned environmental 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 Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON 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 JOHNSON'S FORWARD® CLEANER.

**Contact Time:** Allow surface to remain wet for 1 minute to kill HIV-1 and for 10 minutes to kill all other organisms cited on the label.

**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.

**Light Duty Cleaning:** For cleaning of most soils on most surfaces: Use a 1:128 dilution (1 oz. per gallon of water). Apply to surfaces. Wipe surfaces (and let air dry).

**Normal Cleaning:** Use a 1:43 dilution (3 oz. per gallon of water). Apply to surfaces. Wipe surfaces (and let air dry).

**Heavy Duty Cleaning:** Use up to a 1:32 dilution (4 oz. per gallon of water). Apply to surfaces. Wipe surfaces (and let air dry).

**For Use as a Deodorizer:** Apply Use Solution to surfaces. Wipe surfaces (and let air dry).

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**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:**

Do not reuse empty container unless refilling from a larger container of the same product according to the refilling directions outlined previously. (Keep from freezing.)

**PESTICIDE DISPOSAL:**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

(Plastic Containers:)

If not being refilled with JOHNSON'S FORWARD<sup>®</sup> CLEANER, triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Sealed Dispenser Cartridges/Portion-Dose (ACCUMIX<sup>™</sup>) bottles/Tear-open Pouches)

Do not reuse, wrap empty container and put in trash. [Note to Agency: Please note that neither dispenser cartridges nor portion-dose (ACCUMIX) bottles can be triple rinsed because they are closed sealed containers designed to reduce worker exposure to the concentrate.]

**ENVIRONMENTAL HAZARDS (for containers of 5 gallons 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 authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER: Corrosive.** Concentrate causes irreversible eye damage and skin burns. Do not get in eyes, on skin or clothing. Wear chemical splash-proof goggles or face shield, chemical resistant gloves and protective footwear when handling concentrate. Concentrate is harmful if absorbed through skin or swallowed. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. (After product is diluted in accordance to Directions for Use, avoid contact with eyes and skin. Protective eyewear, clothing and gloves are no longer required. Wash skin thoroughly with soap and water after handling.)

**FIRST AID**

**IF IN EYES:** Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF SWALLOWED:** Immediately drink 1 to 2 glasses of water or milk. Do not induce vomiting or give anything by mouth to an unconscious person. Call a doctor or get medical attention.

(If the diluted product gets: In eyes, flush eyes with plenty of water. Call a physician if irritation persists. On skin: Wash with plenty of soap and water. Get medical attention if irritation persists.)

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

MSDS No. XXXXXXXX

ACCEPTED  
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# Johnson Wax PROFESSIONAL

## JOHNSON'S FORWARD® CLEANER REFERENCE SHEET

When used as directed at a 1:32 dilution (4 oz. per gallon of water), JOHNSON'S FORWARD® CLEANER is highly effective against a wide variety (broad-spectrum) of pathogenic microorganisms. Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 500 ppm hard water, 10% serum load and 10 minutes contact time JOHNSON'S FORWARD® CLEANER kills the following:

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

- |  |   |   |
|--|---|---|
| <i>Pseudomonas aeruginosa</i> , (ATCC 15442)                     | <i>Klebsiella pneumoniae</i> , (ATCC 13883)     | <i>Salmonella typhimurium</i> , (ATCC 13311)  |
| <i>Staphylococcus aureus</i> , (ATCC 6538)                       | <i>Legionella pneumophila</i> , (ATCC 33153)    | <i>Serratia grimesii</i> , (ATCC 14460)   |
| <i>Salmonella choleraesuis</i> , (ATCC 10708)                    | <i>Listeria monocytogenes</i> , (ATCC 15313)    | <i>Serratia marcescens</i> , (ATCC 9103)  |
| <i>Bordetella bronchiseptica</i> , (ATCC 10580)                  | <i>Micrococcus luteus</i> , (ATCC 4698)         | <i>Shigella dysenteriae</i> , (ATCC 29026)  |
| <i>Burkholderia cepacia</i> , (ATCC 25416)                       | <i>Micrococcus sedentarius</i> , (ATCC 27573)   | <i>Shigella flexneri</i> , (ATCC 25875)   |
| <i>Campylobacter fetus</i> , (ATCC 27374)                        | <i>Morganella morganii</i> , (ATCC 25830)       | <i>Shigella sonnei</i> , (ATCC 25931)   |
| <i>Citrobacter freundii</i> , (ATCC 8090)                        | <i>Neisseria gonorrhoeae</i> , (ATCC 43069)     | <i>Staphylococcus aureus</i> , (ATCC 25923)   |
| <i>Enterobacter aeogenes</i> , (ATCC 13048)                      | <i>Pasteurella multocida</i> , (ATCC 43137)     | <i>Staphylococcus aureus</i> (Toxic Shock), (ATCC 33586)                            |
| <i>Enterobacter agglomerans</i> , (ATCC 27155)                   | <i>Proteus mirabilis</i> , (ATCC 9240)          | <i>Staphylococcus epidermidis</i> , (ATCC 14990)                                    |
| <i>Enterobacter cloacae</i> , (ATCC 23355)                       | <i>Proteus vulgaris</i> , (ATCC 13315)          | <i>Staphylococcus haemolyticus</i> , (ATCC 29970)                                   |
| <i>Enterobacter gergoviae</i> , (ATCC 33028)                     | <i>Pseudomonas cepacia</i> , (ATCC 25416)       | <i>Staphylococcus saprophyticus</i> , (ATCC 15305)                                  |
| <i>Enterobacter liquefaciens</i> , (ATCC 14460)                  | <i>Pseudomonas diminuta</i> , (ATCC 11568)      | <i>Staphylococcus species</i> , (ATCC 12715)  |
| <i>Enterococcus faecalis</i> , (ATCC 19433)                      | <i>Pseudomonas fluorescens</i> , (ATCC 13525)   | <i>Streptococcus agalactiae</i> , (ATCC 13813)                                      |
| <i>Enterococcus hirae</i> , (ATCC 10541)                         | <i>Pseudomonas putida</i> , (ATCC 12633)        | <i>Streptococcus mutans</i> , (ATCC 25175)  |
| <i>Escherichia coli</i> ( <i>E. coli</i> ), (ATCC 11229)         | <i>Pseudomonas stutzeri</i> , (ATCC 17588)      | <i>Streptococcus pyogenes</i> , (ATCC 19615)  |
| <i>Escherichia coli</i> ( <i>E. coli</i> ) 0157:H7, (ATCC 43890) | <i>Salmonella enteritidis</i> , (ATCC 13076)    | <i>Streptococcus pyogenes</i> ("Strep A" - Flesh Eating Strain), (clinical isolate) |
| <i>Flavobacterium meningosepticum</i> , (ATCC 13253)             | <i>Salmonella gallinarum</i> , (ATCC 9184)      | <i>Vibrio cholera</i> , (ATCC 11623)  |
| <i>Hafnia alvei</i> , (ATCC 13337)                               | <i>Salmonella schottmuelleri</i> , (ATCC 10719) | <i>Yersinia enterocolitica</i> , (ATCC 9610)  |
| <i>Klebsiella oxytoca</i> , (ATCC 13182)                         | <i>Salmonella typhi</i> , (ATCC 6539)           |   |

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

- |  |  |   |
|--|--|---|
| <i>E. coli</i> , (ATCC 55244); (resistant to Kanamycin)                      | <i>Klebsiella oxytoca</i> , (ATCC 15764); (resistant to Ampicillin, Dihydrostreptomycin)             | <i>Staphylococcus aureus</i> (MRSA, GRSA), (ATCC 33592 & 14154); (resistant to Methicillin [MRSA], Gentamicin [GRSA], Penicillin, Erythromycin, Streptomycin, Tetracycline) |
| <i>E. coli</i> 0157:H7, (ATCC 47041); (resistant to Tetracycline)            | <i>Micrococcus luteus</i> , (ATCC 14452); (resistant to Dihydrostreptomycin, Neomycin, Streptomycin) | <i>Streptococcus pneumoniae</i> , (ATCC 51915) resistant to Penicillin [PRSP]   |
| <i>Enterococcus faecalis</i> , (ATCC 51299); (resistant to Vancomycin [VRE]) | <i>Micrococcus sedentarius</i> , (ATCC 27573) (resistant to Methicillin)                             |   |

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

- |   |   |  |
|---|---|--|
| <i>HIV-1</i> (AIDS virus)**, (HTLV-III <sub>B</sub> ) | <i>Herpes simplex Type 2</i> , (VR-734)                   | <i>Respiratory syncytial virus</i> , (VR-26) |
| <i>Cytomegalovirus</i> , (VR-538)                     | <i>Influenza Type A<sub>2</sub></i> (Hong Kong), (VR-544) | <i>Vaccinia virus</i> , (VR-119)             |
| <i>Herpes simplex Type 1</i> , (VR-733)               | <i>Parainfluenza Type 3</i> , (VR-93)                     |  |

\*\*Test performed using 1 minute contact time.

### (Veterinary viruses:)

- |   |                                      |   |
|---|--------------------------------------|---|
| <i>Avian Infectious bronchitis</i> (IBV), (VR-22) | <i>Chlamydia psittaci</i> , (VR-125) | <i>Transmissible gastroenteritis virus</i> (TGE), (U of Minn. Strain) |
| <i>Avian Influenza</i> , (VR-2072)                |                                      |   |

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

- |   |   |  |
|---|---|--|
| <i>Geotrichum candidum</i> , (ATCC 18301) | <i>Trichophyton mentagrophytes</i> (athlete's foot fungus), (ATCC 9533) | <i>Zygosaccharomyces bailii</i> , (ATCC 56075) |
|---|---|--|

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When used as directed at a 1:43 dilution (3 oz. per gallon of water) in the presence of 200 ppm hard water, 10% serum load, JOHNSON'S FORWARD® CLEANER, kills *Trichophyton mentagrophytes* (athlete's foot fungus)(ATCC 9533) in 10 minutes and HIV-1 (AIDS virus)(HTLV-III<sub>b</sub>) in 1 minute on hard non-porous inanimate surfaces.

**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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