**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Do not reuse empty container. Keep from freezing.

**PESTICIDE DISPOSAL**

Pesticide wastes are strictly hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by you 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**

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.

**PRECAUTIONARY STATEMENTS**

**HAZARD TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear chemical splash-proof goggles or face shield, rubber gloves and protective clothing. If swallowed, induced vomiting. Inhalation or absorption through skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, 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.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

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

1-800-921-7145

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

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

**PELIGRO**

Si no puede leer en inglés, pregunte a su supervisor sobre las instrucciones de uso apropiadas antes de trabajar con este producto.

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EPA Est. No. 4622-W-1

MSDS Ref. No. 113725002

FOR COMMERCIAL & INDUSTRIAL USE ONLY

Product of U.S.A.

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**JohnsonDiversey**

**virex® 128**

**One-Step Disinfectant Cleaner And Deodorant**

**Bactericidal • *Virucidal • Fungicidal • Mildewcidal • Deodorizer • Mildewstatic • Non-Dulling To Floors**

Meets OSHA Bloodborne Pathogen Standard for HBV & HIV

**ACTIVE INGREDIENTS:**

- Didecyl dimethyl ammonium chloride.......................... 4.352%
- n-Allyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride.......................... 4.095%
- OTHER INGREDIENTS: ......................................... 91.553%

**TOTAL:** .......................................................... 100.000%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER:**

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON BACK.

**Net Contents: 3.78 L / 1 U.S. Gal.** 03786
VIREF® II 128 is a one-step disinfectant cleaner and deodorant designed for general cleaning, disinfecting and deodorizing on hard, non-porous environmental surfaces. It cleans quickly by removing dirt, grime, mold, mildew, body oils and other common soils found in hospitals, nursing homes, schools and colleges, medical offices, hotels, motels, public areas and restrooms and foodservice establishments.

It is designed for use on the following hard, non-porous environmental surfaces: vinyl, painted surfaces, plastic, glazed ceramic, glazed porcelain, chrome, aluminum, laminated surfaces and baked enamel surfaces associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, sinks, shower rooms and locker rooms areas — any washable surface where disinfection is required. VIREF® II 128’s non-dulling formula eliminates the time and labor normally required for rinsing. A potable water rinse is required for food contact surfaces. Do not use on glasses, dishes and utensils.

When used as directed at a 1:128 dilution (1 oz. per gallon of water), VIREF® II 128 contains 660 ppm of active quaternary ammonium making it highly effective against a wide variety of pathogenic microorganisms. See reference sheet for a complete list of organisms.

Using approved ADAC test methods under Good Laboratory Practices, in the presence of 400 ppm hard water, 1% serum (old and fresh) and 10 minutes contact time, unless otherwise noted, VIREF® II 128 kills the following on hard non-porous inanimate surfaces:

Bacteria — Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella choleraesuis, Enterococcus facioles, Escherichia coli, Pseudomonas aeruginosa, Klebsiella pneumoniae, Listeria monocytogenes, Proteus mirabilis, Proteus vulgaris, Salmonella enteritidis, Salmonella typhimurium, Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus pyogenes, Antibiocous-Resistant Bacteria — Enterococcus facioles, resistant to Tetracycline (VIRE). Staphylococcus aureus, Intermediate Vancomycin Resistance (VISA), Staphylococcus aureus, resistant to Methicillin (VIRSET) and Gentamicin (GISA), Staphylococcus epidermidis, resistant to Methicillin (VIRE), Streptococcus pneumoniae, resistant to Penicillin (PSP).

Viruses — Cytomegalovirus, Herpes Simplex Type 1, Herpes Simplex Type 2, Human Coronavirus, Influenza Type A (Hong Kong), Influenza Type B, Respiratory syncytial virus, Rotavirus, Vaccinia virus, VEE virus and HIV-1 (AIDS virus) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time. *Kills HBV & HCV when used as directed on hard, non-porous inanimate surfaces with a 5 minute contact time.

Fungi — Cephalosporium, Aspergillus niger, Penicillium notatum, Trichophyton tonsurans, and Candida albicans.

Mold/Mildew — kills the growth of mold and mildew: Aspergillus niger and the colors caused by them when applied to hard, non-porous environmental surfaces.

Stabilization of Stability of Use-Dilution — Tests show VIREF® II 128, when diluted in 400 ppm hard water and in the presence of 0.5% serum (old and fresh) remains effective against Pseudomonas aeruginosa, Staphylococcus aureus and Salmonella choleraesuis for up to 7 days in storage as long as 1% remains sealed. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared, Always use clean, dry containers when diluting this product.

VIREF® II 128 can be applied by mop, sponge, cloth, paper towel, coarse trigger sprayer, auto-scrubber or foam gun. Change cloth, sponges or towels frequently to avoid reposition of soil. For disinfection, all surfaces must remain wet for 10 minutes.

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 disinfectant on any surface or instrument that (1) is introduced directly into the human body, either in or in 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 may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

To Prepare Use Solution: Add the product at 1 oz. per gallon of water (1:128).

ACTS — In addition to killing bacteria, floors are to be coated with finish or resealer. All food contact surfaces such as appliances and kitchen countertops must be rinsed with potable water. Do not use on glasses, utensils, or dishes.

For use as a One-Step Cleaner/Disinfectant: Pre-clean heavily soiled areas. Apply Use Solution to hard, non-porous environmental surfaces. All surfaces must remain wet for 10 minutes. Wipe surfaces and let air dry.

For use as a Disinfectant: Pre-clean heavily soiled areas. Apply Use Solution to hard, non-porous environmental surfaces. All surfaces must remain wet for 10 minutes. Wipe surfaces and let air dry.

For use as a Cleaner: Apply Use Solution to surfaces. Wipe surfaces and let air dry.

For use as a Non-Acid Bowl Cleaner/Disinfectant in Toilet Bowls and Urinals from Use-Dilution: Pre-clean heavily soiled areas. Empty toilet bowls by forcing water through the trap. Apply Use Solution to exposed surfaces in toilet bowls and urinals. Swab entire surface area especially under rim. Allow entire surface to remain wet for 10 minutes. Flush toilet or urinal and rinse with application thoroughly.

For use as a Non-Acid Bowl Cleaner in Toilet Bowls from Concentrate: Pre-clean heavily soiled areas. Add 3/4 oz. into toilet bowl, Swab entire surface area especially under rim. Allow entire surface to remain wet for 10 minutes. Flush toilet or urinal and rinse with application thoroughly.

For use as a Toilet Bowl Cleaner/Disinfectant in Toilet Bowls from Concentrate: Pre-clean heavily soiled areas. Add 3/4 oz. into toilet bowl, Swab entire surface area especially under rim. Allow entire surface to remain wet for 10 minutes. Flush toilet or urinal and rinse with application thoroughly.

For use as a Floor Sanitizer: Pre-clean heavily soiled areas. Apply Use Solution to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for 10 minutes. Scrub using a cloth brush or other coarse material as necessary. Rinse surfaces thoroughly and let air dry.

To Kill Mold and Mildew (in 5% soil load): Pre-clean heavily soiled areas. Apply Use Solution to hard, non-porous environmental surfaces. All surfaces must remain wet for 10 minutes. Wipe surfaces and let air dry.

To Control Mold and Mildew: Apply Use Solution to pre-cleaned hard, non-porous environmental surfaces. Allow to air dry. Repeat application weekly or when growth reappears.

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

VIREF® II 128 kills HBV, HCV and 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 Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

SPECIAL INSTRUCTIONS FOR CLEANSING AND DECONTAMINATION AGAINST HBV, HCV AND HIV-1 ON SURFACES/OBJECTS SOILLED WITH BLOOD/BODY FLUIDS:

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

Cleaning Procedures: Blood and body fluids must be thoroughly cleansed from surfaces and objects before application of VIREF® II 128.

Contact Time: Allow surface to remain wet for 1 minute to kill HIV-1, 5 minutes to kill HBV & HCV, 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.
One-Step Disinfectant Cleaner And Deodorant

When used as directed at a 1:128 dilution (1 oz. per gallon of water) VIREX® II 128 cleans 60X ppm of active quaternary germicide making it highly effective against a wide variety of pathogenic microorganisms.

Using approved AOAC test methods under Good Laboratory Practices, in the presence of 400 ppm hard water, 10% serum load and 10 minutes contact time, unless otherwise noted, VIREX® II 128 kills the following on hard non-porous inanimate surfaces:

**Bacteria** -
- Pseudomonas aeruginosa, (ATCC 15442)
- Staphylococcus aureus, (ATCC 6538)
- Salmonella choleraesuis, (ATCC 17028)
- Acinetobacter calcoaceticus, (ATCC 9957)
- Bordetella bronchiseptica, (ATCC 10550)
- B. thailandensis, formerly known as Pseudomonas cepacia
- Campylobacter fetus, (ATCC 27374)
- Clostridium perfringens, (VR-125)
- G. stecotae, (ATCC 9026)
- Enterobacter aerogenes, (ATCC 27155)
- Enterococcus cecorum, (ATCC 23352)
- Enterococcus liquefaciens, (ATCC 14469)
- Enterococcus faecalis, (ATCC 14933) formerly known as Streptococcus faecalis
- Enterococcus hirae, (ATCC 10541)
- Escherichia coli, (ATCC 11229)
- E. coli 0157:H7, (ATCC 43890)
- Flavobacterium meningosepticum, (ATCC 12533)
- Haemophilus influenzae, (ATCC 10211)
- Hafnia alvei, (ATCC 19377)
- K. oxytoca, (ATCC 13821)
- K. pneumoniae, (ATCC 13882)
- Legionella pneumophila, (ATCC 33153)
- Listeria monocytogenes, (ATCC 15313)
- Micrococcus luteus, (ATCC 4698)
- Micrococcus luteus, (ATCC 14452)
- Micrococcus sedentarius, (ATCC 27573)
- Nocardia griesii, (ATCC 43029)
- Pasteurella multocida, (ATCC 43137)
- Proteus mirabilis, (ATCC 9240)
- Proteus vulgaris, (ATCC 13316)
- Pseudomonas diminuta, (ATCC 11568)
- Pseudomonas fluorescens, (ATCC 13052)
- Pseudomonas putida, (ATCC 12633)
- Pseudomonas stutzeri, (ATCC 17588)
- Salmonella cholecystitis purpurea, (ATCC 19945)
- Salmonella enteritidis, (ATCC 13079)
- Salmonella gallinarum, (ATCC 9164)
- Salmonella senftenberg, (ATCC 21679)
- Salmonella typhi, (ATCC 6559)
- Salmonella typhimurium, (ATCC 13311)
- Serratia marcescens, (ATCC 9083)
- Shigella dysenteriae, (ATCC 29023)
- Shigella flexneri, (ATCC 25875)
- Shigella sonnei, (ATCC 25952)
- Staphylococcus aureus, (ATCC 29592)
- Staphylococcus aureus (Oiec, Shopr), (ATCC 33586)
- Staphylococcus epidermidis, (ATCC 14999)
- Staphylococcus haemolyticus, (ATCC 29970)
- Streptococcus agalactiae, (ATCC 13810)
- Streptococcus mutans, (ATCC 55736)
- Streptococcus pyogenes, (ATCC 19615)
- Streptococcus pyogenes (Group A - Foul-Facing Strain), (Clinical isolate)
- Vibrio cholerae, (ATCC 11728)
- Yersinia enterocolitica, (ATCC 92761)

**Antibiotic-Resistant Bacteria** -
- Escherichia coli (ATCC 35244), Resistant to Kanamycin
- Escherichia coli (ATCC 47010), Resistant to Tetacycline
- Enterococcus faecalis (ATCC 51299), Resistant to Vancomycin [VRE]
- K. oxytoca (ATCC 17584), Resistant to Amantadine, Urapidil, Probenecid, Micafloxolone, Sedentarix (ATCC 27573), Resistant to Methidathion
- Staphylococcus aureus (CDC HP-586), Intermediate Vancomycin Resistance [VISA]
- Staphylococcus aureus (ATCC 14154), Resistant to Erythromycin, Penicillin, Streptomycin, Tetracycline
- Staphylococcus aureus (ATCC 35592), Resistant to Methidathion [MSRA]
- Gentamicin [GISA]
- Staphylococcus epidermidis (ATCC 35625), Resistant to Methidathion [MISA]
- Streptococcus pneumoniae (ATCC 51015), Resistant to Penicillan [PGA]

**Viruses** -
- Cytomegalovirus, (VR-520)
- Herpes simplex Type 1, (VR-713)
- Herpes simplex Type 2, (VR-746)
- Human Coronavirus, (VR-760)
- Influenza Type A2, (Hong Kong), (VR-544)
- Parainfluenzae Type 3, (VR-929)
- Respiratory syncytial virus, (VR-26)
- Rotavirus, (Strain WA)
- Vernal virus (influenza virus), (VR-66)
- HIV-1a (AIDS virus), (VR-261) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.
- HIV-1b & CCV when used as directed on hard, non-porous inanimate surfaces with a 5 minute contact time.

**Veterinary viruses**:
- Avian Influenza virus (IBV), (VR-22)
- Avian Influenza, (VR-2072)
- Canine distemper, (VR-128)
- Feline viral rhinotracheitis, (VR-626)
- Feline viral immunoaenmiasis, (VR-716)
- Influenza virus, (VR-489)
- New Castle disease, (VR-116)
- Pseudorabies, (VR-135)
- Rhabdovirus (rhabdovirus), (VR-626)

**Fungi** -
- Aspergillus flavus, (ATCC 16301)
- Saccharomyces cerevisiae, (ATCC 26611)

Using approved AOAC test methods under Good Laboratory Practices, in the presence of 400 ppm hard water, 5% serum load and 10 minutes contact time, unless otherwise noted, VIREX® II 128 kills the following on hard non-porous inanimate surfaces:

**Viruses** -
- Adenovirus Type 2, (VR-32)

**Fungi**:
- Aspergillus niger, (ATCC 6275)
- Triatoma venenata (pneumato, et al.), (ATCC 9533)

**Yeasts**:
- Candida albicans, (ATCC 10231)

**Mold/Mildew** - kills the growth of mold and mildew: Aspergillus niger (ATCC 6275) and the oils caused by them when applied to hard, non-porous surfaces.

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

**Malodor** - eliminates odors and odor-causing bacteria in restroom areas, behind and under sinks and countertops, storage areas and other places where bacterial growth can cause malodor.

**Bactericidal Stability of Use-Dilution** - Tests show VIREX® II 128, when diluted in 1000 ppm hard water and in the presence of 5% serum load, remains effective against Pseudomonas aeruginosa, Staphylococcus aureus and Salmonella choleraesuis for up to 1 year in storage as long as it remains sealed. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use fresh, dry containers when diluting this product.

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