



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Antimicrobials Division (7510P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

9616-15

Date of Issuance:

2/8/16

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

VERTEX GERMICIDAL
 CONCENTRATED BLEACH-8.25%

Name and Address of Registrant (include ZIP Code):

Robert Brennis
 Agent for Vertex Chemical Corp.
 Brennis Consulting Services
 6628 Birchleigh Way
 Alexandria, VA 22315

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Demson Fuller, Product Manager 32
 Regulatory Management Branch II
 Antimicrobials Division (7510P)

Date:

2/8/16

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 9616-15.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 12/02/2015

If you have any questions, please contact Srinivas Gowda by phone at (703) 308-6354 or via e-mail at gowda.srinivas@epa.gov

Sincerely,



Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

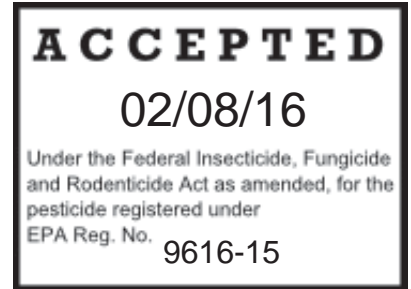
VERTEX GERMICIDAL CONCENTRATED BLEACH – 8.25%

Active Ingredient:
Sodium Hypochlorite 8.25%
Other Ingredients91.75%
TOTAL: 100.00%

[Available Chlorine 7.86%]

KEEP OUT OF REACH OF CHILDREN

DANGER



FIRST AID [STATEMENT]

Call a poison control center [1-800-222-1222] or doctor for treatment advice.
Have the product container or label with you when calling a poison center or doctor, or going for treatment.

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 with plenty of water for 15-20 minutes.

If swallowed:

- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus.
- This product [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

See Back Panel For Additional Precautionary Statements

NET 96 FL. OZ. (3 QT.) 2.84L, 64 FL. OZ. (2 QT.) 1.89L, 30 FL. OZ.(1.875 PT.) .89L, 128 FL. OZ (1Gallon) 3.78L,
121 FL. OZ. (3.78 QT) 3.58L, 182 FL. OZ.(1.4 GAL) 5.38L, (other sizes permitted)

Manufactured by[for]: Vertex Chemical Corporation, St. Louis, MO 63131

EPA Reg. No. 9616- RU

EPA Est. No. 9616-IL-1; IA-1: TN-1

[FOR CHEMICAL EMERGENCY **DURING TRANSPORTATION ONLY** Call INFOTRAC 1-800-535-5053. 24 hours a day, 7 days a week.]

[Batch Code _____] [To be located anywhere on label or container.]

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

DANGER: Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet [or restroom]. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

[In accordance with PR notice 95-1, the Environmental Hazards statement only required for containers 5 gallons and larger]

Environmental Hazards

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams ponds, estuaries, oceans or public 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.

[For containers smaller than 5 gallons use the following:]

Environmental Hazards

This product is toxic to fish and aquatic organisms.

Physical and Chemical Hazards

Strong oxidizer. Flush drains before and after use. Do not use or mix with other household chemicals, such as toilet bowl cleaners, rust removers, acid or ammonia containing products. To do so will release hazardous gasses. Prolonged contact with metal may cause pitting or discoloration.

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal or cleaning of equipment. Store in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer.

VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25% (this product) CONTAINER DISPOSAL:

(FOR HOUSEHOLD & RESIDENTIAL USE LABELS ONLY) (marketing label will include only applicable container handling instructions) **NONREFILLABLE CONTAINER—DO NOT reuse or refill this container.** Offer for recycling, if available or place in trash (collection).

CONTAINER HANDLING: (ALL OTHER LABELS) (marketing label will include only applicable container handling instructions) (When check-off box format is used on label, filler will mark appropriate box.)

- (Nonrefillable container 5 gallons or less) **NONREFILLABLE CONTAINER— DO NOT reuse or refill this container. Clean container promptly after emptying.** Triple rinse as follows: Fill container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Dispose of rinsate in sanitary sewer. Offer for recycling if available or place in trash.
- REFILLABLE CONTAINER—Refill this container with VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25% (this product) only.** Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Offer for recycling if available or puncture and dispose of in a sanitary landfill.

[Bulk Shipment Transport Vehicle labeling: The following is to be used for bulk shipment transport vehicle labeling. In accordance with 40 CFR 156.140 (e) "Exemption for transport vehicles" transport vehicles are exempt from the requirements to provide refillable or nonrefillable container instructions.]

[Additional optional claims; note these can be listed in any order and location, parenthetical terms need not be included:][The phrase “this product” may be used interchangeably with the product name “VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25%” throughout the label]

Kills 99.9% of common household germs (in kitchens and bathrooms)

Kills 99.9% germs

Kills viruses* that cause colds and flu

Vertex Ultra Germicidal Bleach kills germs

This product, when used as directed on hard, non-porous surfaces, is effective against the following:

FUNGICIDAL

- Trichophyton mentagrophytes (Athlete’s foot fungus)
- Aspergillus brasiliensis

BACTERICIDAL

- Escherichia coli 0157:H7 (E. coli)
- Pseudomonas aeruginosa (pseudomonas)
- Salmonella enterica (Salmonella)
- Staphylococcus aureus (staph)
- Streptococcus pyogenes (strep)

***VIRUCIDAL**

- *Avian Flu virus
- *Influenza A virus
- *Human Immunodeficiency Virus type 1
- *Adenovirus type 5
- *Rhinovirus type 37 (viruses that cause colds and flu)

[Or, optional: can be listed in the following format:]

VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25% kills germs:

Kills common household germs including Staphylococcus aureus (staph), Streptococcus pyogenes (strep), Salmonella enterica (salmonella), Pseudomonas aeruginosa (pseudomonas), *Influenza A virus, *Rhinovirus type 37 (viruses that cause colds and flu), Trichophyton mentagrophytes (Athlete’s foot fungus), and Escherichia coli 0157:H7 (E. coli). Also kills *Hepatitis A, *Respiratory Syncytial Virus, *Herpes Virus 1 (herpes), *Herpes Virus 2 (herpes), *Feline Parvovirus, Avian Flu virus, Avian Influenza A virus and H1N1 Influenza A virus.

[Optional Antimicrobial Claims:]

DISINFECTS • SANITIZES • DEODORIZES

*VIRUCIDE

BACTERICIDE • FUNGICIDE

DISINFECTS AND DEODORIZES

KILLS GERMS

BACTERICIDAL

MILDEWCIDAL

FUNGICIDAL

This product can be used on hard non-porous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels, veterinary premises, farms, dairies, and food processing plants.

Kitchen: Clean and disinfect kitchen sinks and countertops.

Bathroom: Deodorize and disinfect bathtubs, showers, floors, vinyl, and tile.

Toilet Bowls: Disinfect your toilet.

General Non-Pesticidal Claims and Information

BRIGHTENS LAUNDRY

CLEANS

Commercial/Institutional Use

Contains No Phosphorus

Concentrated

DO NOT DROP

ELIMINATES ODORS

FOR A CLEANER, FRESHER HOUSEHOLD & [AND] LAUNDRY

For standard and HE washers

For use in standard and HW washing machines

FORMULATED FOR FOODSERVICE APPLICATIONS

HIGHER CONCENTRATION FORMULA

JUST AS SAFE ON BLEACHABLE FABRICS AS BEFORE

KEEP BOTTLE UPRIGHT AND TIGHTLY CAPPED

KEEP UPRIGHT

Made in the U.S.A.

Now Concentrated

Not harmful to septic tanks

REMOVES STAINS

SAFE ON BLEACHABLE FABRICS

Same number of loads as before

Visit us at [web site address]

WHITENS

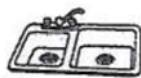
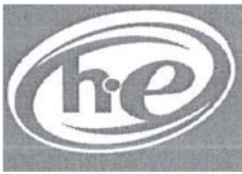
100% Satisfaction Guaranteed

Double Quality Guarantee – Quality, performance and satisfaction are always DOUBLE guaranteed at [company name]. If for any reason you are not satisfied with this product, we will gladly replace the product AND refund your money. When corresponding, please include code information from [product name].

Exercise care in handling. Check to make sure bottle is always tightly capped. Product should be carried and stored in an upright position to avoid spillage.

Do not use this product full strength for cleaning surfaces. Always dilute strictly in accordance with label directions. Wear gloves when cleaning for prolonged periods.

Optional graphics



[64 oz. = 96 oz.] [other sizes may be substituted]

Same # of loads as before.

[The following headings maybe placed above or in front of appropriate directions (e.g., Household Use in front of directions for dishes or floors)]

HOSPITAL	INSTITUTION	MEDICAL CLINIC
MEDICAL FACILITY	NURSING HOME	DAYCARE CENTER
HEALTH CLUB	LOCKER ROOM	RESTROOM
OFFICE BUILDING	SCHOOL	HOTEL
FARM - DAIRY USE	RESTAURANT [USE]	FOODSERVICE APPLICATIONS
HOUSEHOLD [USE]	INSTITUTION	FOOD PROCESSING PLANT USE
HOTEL	KENNEL	

DIRECTIONS FOR USE

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

[Use one or more of the following laundry directions as appropriate:] [All numbered directions may be used in paragraph form without numbers.]

LAUNDRY [Bleaching]

Use to bleach white and colorfast Acrylics, Cotton, Nylon, Polyester, Rayon (test to be sure). Do not use on Acetate, Leather, Silk, Spandex or Wool, Mohair and [or] non-fast colors. Sort laundry by color and fabric. Separate whites from colors, light colors from dark colors.

[BLEACH TEST]: Before using, mix one tablespoon of bleach with ¼ cup of water in a glass, rubber, glazed porcelain, or plastic container and test a small piece of fabric in a place that doesn't show. Test all colors, including trim. Let stand one minute, then blot dry. No color change means the article can be bleached safely.

TOP LOADING [MACHINE]: Before adding clothes, mix 1/2 cup of bleach with water in top-loading 16 gallon machines. For large top loading automatics or larger heavily soiled loads use 1 cup. Add clothes

FRONT LOADING [MACHINE]: Mix ½ cup bleach with water in front-loading [or HE] 8 gallon machines. If clothes are in machine the addition of bleach can cause damage.

FOR HE WASHERS: add using the bleach dispenser filling to the max line following the machine manufacturer's instructions.

TOP LOAD AUTOMATIC	1/2 CUP	LARGE TOP LOADING AUTOMATIC	1 CUP
FRONT LOAD AUTOMATIC	1/2 CUP	LARGE/HEAVY SOILED LOADS	1 CUP

LAUNDRY [USE:]

1. Before adding clothes, mix 1/2 cup of bleach with water in top-loading 16 gallon machines or mix 1/2 cup bleach with water in front-loading [or HE] 8 gallon machines. For large top loading automatics or larger heavily soiled loads, use 1 cup. For HE washers, add using the bleach dispenser filling to the max line following the machine manufacturer's instructions
2. Add clothes.
3. Wash and rinse with usual cycles. [Do not use on Acetate, Leather, Silk, Spandex or Wool, Mohair and [or] non-fast colors.]

[OR: *the following format maybe used:*]

LAUNDRY [USE:]

1. Sort your laundry by color and fabric type.
2. Add ½ cup of bleach and laundry detergent to wash water. For extra large machines, add 1 cup.
3. Add laundry.

To Whiten Nylon and Other Synthetics that have turned yellow or grey:

1 tablespoon of [this product] per gallon of water. Soak clean fabric in solution for 10 to 15. Rinse well, repeat if necessary.

Today's permanent Press Fabrics are Bleachable and need this product to get out stains and help prevent dirt build up. Wash with regular laundry as directed: Top-load automatics - ½ cup per load. Wringer-type washers -½ cup per load. Front-load automatics - ½ cup per load. Use this product with any good laundry soap or detergent. If your washer has an automatic bleach dispenser, follow washer directions. If not, add this product to wash water before laundry is put in. If laundry is put in before wash water then dilute this product in quart of water and add after machine has started agitating and fabrics are thoroughly wet.

Machine Washing Directions: [use at least once a month to keep your washing machine smelling fresh and clean.] If your HE machine has a cleaning cycle, check the manufacturer's directions before use. 1. Select the hot water setting. 2. Fill the bleach dispenser to the maximum level. 3. Run the cycle until it is completed. 4. Run a rinse cycle, manually to flush out any remaining bleach.

[LAUNDRY SANITIZATION] [Use one of the following as appropriate:]

[Add to one of the sets of bleaching directions above: If sanitization is desired, increase to 1 cup bleach for top loading, ½ cup for front load machines, and immerse laundry for at least 10 minutes prior to starting the wash/rinse cycle. Wash and rinse with usual cycles.]

Laundering: To bleach and sanitize white and colorfast Cotton, Linen, Nylon, Dacron, Orlon, Polyester, Dynel and Rayon in washing machine: 1 cup of this product per load for conventional washing machine [16 gallon]: ½ cup for front load [8 gallon] automatic. Add to pre-soak, wash water. If clothes are in machine, dilute product in 1 quart of the wash water before adding. Immerse laundry for at least 10 minutes prior to starting the wash/rinse cycle.

To Sanitize Laundry: add 1 cup of this product per load for conventional washing machine [16 gallon]; ½ cup for front load [8 gallon] automatic. If clothes are in machine, dilute product with 1 quart of the wash water before adding. Immerse laundry for at least 10 minutes prior to starting the wash/rinse cycle.

Mops, Brushes, Brooms & Rags: Pre-wash items, then soak them in bleach solution of 1 Tablespoon per gallon of water for at least 10 minutes. Rinse well.

[LAUNDRY STAIN REMOVAL] [Use one or more of the following fabric stain removal directions as appropriate:]

[To] REMOVE STAINS: Berry, wine, coffee, tea, ink, grass, dye, medicine stains, scorch and mildew stains: Mix ¼ cup of bleach with a gallon of water. Soak stained area for 5 minutes to remove grass, ink, coffee, tea, scorch, fruit, etc. Rinse thoroughly.

[TO] [REMOVE STAINS] STAIN REMOVAL:

1. Mix 1/4 cup of bleach with a gallon of water.
2. Soak stained area for 5 minutes to remove grass, ink, coffee, tea, scorch, fruit, etc.
3. Rinse thoroughly.

[To] REMOVE STAINS: Berry, wine, coffee, tea, ink, grass, dye, medicine stains, scorch and mildew stains: Make solution of 1 Tablespoon of this product to each quart of water. Immerse fabric for 5 minutes. Rinse well in clear water. Repeat if necessary.

[NON-PESTICIDAL: SURFACES OTHER THAN LAUNDRY]

To Deodorize & Remove Allergens³ from Hard Non-porous Surfaces: Mix 1/2 cup bleach with 1 gallon of water and apply solution until the surface is thoroughly wet. Wipe with a clean cloth or sponge. No rinsing required.

3 - This product removes the following non-living allergens: dust mite matter [or particles] • cockroach matter [or particles] • pet dander • pollen particle allergens

For Stain Removal: Mix 1/2 cup with 1 gallon of water.
All surfaces: Add bleach to detergent solution, apply, rinse.

Removing [To Remove] Mold & Mildew Stains from Outdoor Patios:

1. Protect plants from overspray.
2. Use 1/2 cup of bleach per gallon of water to clean unsightly stains using a brush.
3. Rinse entire area, including plants, with water for 3 minutes.

For Deodorizing: Mix 1/2 cup bleach with 1 gallon of water.
Garbage Cans: After washing and rinsing, brush inside with solution. Empty and let drain.

For Deodorizing Drains: Pour 1/2 cup bleach in drain. Drains: Pour into drain. Flush with hot water.

For Bleaching-or-Whitening: Mix 1/4 cup with 1 gallon of water. Wooden Surfaces: Apply for 3 minutes, rinse.

DISINFECTING [To Disinfect:] [choose one or more sets of directions as appropriate]

[NOTE: Alternate equivalent use rate of 2/3 cup of [this product] per gallon of water may be used instead of use rate of "½ cup of bleach to ¾ gallon (3 qts.)(96 fl. oz.) of water" provided below.]

[Bathroom: [optional to list one or more:] Bathtub, tub, counter[tops], faucets, floors, glazed ceramic tile, glazed porcelain, showers, plastic shower curtains, shower walls, sinks, vinyl, walls]

[To Disinfect] Bathroom: Disinfect and deodorize [may add use site from Bathroom list above.]

1. Use 1/2 cup of bleach [VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25%] [or this product] to one gallon of water.
2. Wash, rinse or wipe surface[s] and then apply disinfecting solution.
3. Let stand [for] 5 minutes, then rinse thoroughly and air dry.

[To Disinfect] Kitchens and Bathrooms: Disinfect, deodorize [and kill 99.9% of germs[*]] on counters, in sinks, showers, bathtubs and on vinyl and tile[d] floors.

1. Wash surfaces with water.
2. Apply Disinfecting solution to surfaces with a solution of ½ cup of bleach [VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25%] [or this product] to ¾ gallon [3 qts.][96 fl. oz.] of water.
3. Let stand [for] 5 minutes, then rinse with water and allow to air dry.

Disinfecting and Deodorizing [To Disinfect [and Deodorize]] Bathrooms: To disinfect, deodorize and eliminate mold and mildew from washable surfaces such as tubs, showers, counter[tops], sinks, ceramic tile and vinyl flooring.

1. Spread a solution of 1 cup of this product per 1½ gallons of water on clean surface.
2. Let stand [for] 5 minutes, then drain or rinse and air dry.

Disinfect Hard Non-Porous Surfaces:

1. Use 1/2 cup of bleach [VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25%] [or this product] to one gallon of water.
2. Wash, rinse or wipe surface[s] and then apply disinfecting solution.
3. Let stand [for] 5 minutes, then rinse thoroughly and air dry.

For Disinfecting - Mix 1/2 cup of bleach with one gallon of water.

Floors, Walls [and other hard inanimate surfaces not in direct contact with food:] Prewash surfaces and rinse. Spray, rinse, or wipe surface with bleach solution and let stand [for] 5 minutes. Drain or rinse and air dry.

[To Disinfect] [and Deodorize] Disinfecting [and deodorizing] Sinks:

1. Use 1/3 cup bleach mixed with 2 quarts of water to soak sinks, etc. for 5 minutes.
2. Rinse with a solution of 2 teaspoons of bleach per gallon of water to prepare a 200 ppm solution.
3. Let air dry.

[To] Kill Germs [*] and Odors in Garbage Cans: Rinse with soap and water. Put a solution of ½ cup of bleach with ¾ gallon [3 qts.][96 fl. oz.] of water in the garbage can. Let stand [for] 5 minutes, then drain.

Disinfecting Children's Hard Non-porous Furniture and Toys:

1. Ensure all surfaces are colorfast. Wash all surfaces thoroughly.
2. Use a solution of ½ cup of bleach to ¾ gallon [3 qts.] [96 fl. oz.] of water to disinfect children's surfaces.
3. Let stand [for] 5 minutes, then rinse and allow to dry.

Sickroom Equipment: Wash all surfaces thoroughly. Rinse, then spread a solution of 1 cup of this product per 1 ½ gallons of water over all surfaces. Let stand [for] 5 minutes, then drain.

Special Instructions for Cleaning and Decontamination Against HIV (AIDS VIRUS), on Surfaces/Objects Soiled with Blood/Body Fluids. Kills HIV-1 (AIDS virus), HBV (Hepatitis B virus) and HCV (Hepatitis C virus) on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in healthcare settings or 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).

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

Cleaning Procedures: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before applying this product.

Disinfectant Use and Contact Time: Effective against HIV-1 (AIDS virus), on hard non-porous surfaces. Prepare disinfectant by mixing 1 cup (8 fl. oz.) of this product to ¾ gallon (3 qts.) (96 fl. oz.) of water to provide 5,000 ppm of available chlorine. Leave surfaces wet for 5 minutes for HIV. Drain and let air dry.

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

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.

Special Instructions for Inactivating AVIAN INFLUENZA A virus [in] [Veterinary Clinics] [Animal Life Science Laboratories] [Zoos] [Pet Shops] [Kennels] [Breeding and Grooming Establishments] [Animal Housing Facilities] [Poultry houses] [Hatcheries]

For cleaning and disinfecting hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, and catteries. Remove all poultry [or animals] and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings, and manure from floors, walls, and surfaces of facilities occupied or traversed by poultry [or animals]. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1/2 cup of bleach to one gallon of water and let stand for 5 minutes, drain and air dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure. Ventilate buildings, coops, and other closed spaces. Do not house poultry [or animals] or employ equipment until treatment has been absorbed, set or dried. All treated feed/water bowls, racks, troughs, automatic feeders, fountains, and waterers must be rinsed with potable water before reuse.

[Following Directions (up to the Sanitization section) were derived from EPA's 1986 Standard Sodium Hypochlorite Directions, dosages adjusted.]

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

[The following "Disinfection of Non-Porous Non-Food Contact Surfaces" are not to be used on labels that include the claims on page 3 or the disinfection directions on the previous 2 pages. They were derived from EPA's 1986 Standard Sodium Hypochlorite Directions.]

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a disinfecting solution by thoroughly mixing 12 fl. oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a disinfecting solution by thoroughly mixing, in an immersion tank, 12 fl. oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the disinfectant to drain. Do not rinse equipment with water after treatment.

FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or transversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000 ppm available chlorine for a period of 10 minutes. A 1000 ppm solution can be made by thoroughly mixing 20 fl. oz. of this product with 10 gallons of water. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers must be rinsed with potable water before reuse.

SWIMMING POOL WATER DISINFECTION

For a new pool or spring start-up, superchlorinate with 95 to 200 fl. oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm. To maintain the pool, add manually or by a feeder device 20 fl. oz. of this product for each 10,000 gallons of water to yield an

available chlorine residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

Every 7 days, or as necessary, superchlorinate the pool with 95 to 200 fl. oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is 4.0 ppm. Re-entry into treated pools is prohibited above levels of 4 ppm due to risk of bodily harm.

At the end of the swimming pool season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

WINTERIZING POOLS - While water is still clear & clean, apply 6 fl. oz. of product per 1000 gallons, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HOT-TUBS - Apply 10 fl. oz. of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 10 fl. oz. of product per 1000 gallons of water over the surface to maintain a chlorine concentration of 5 ppm. After each use, shock treat with 15 fl. oz. of this product per 500 gallons of water to control odor and algae.

Re-entry into treated spas is prohibited above levels of 5 ppm due to risk of bodily harm. During extended periods of disuse, add 6 fl. oz. of product daily per 1000 gallons of water to maintain a 3 ppm chlorine concentration.

HUBBARD AND IMMERSION TANKS - Add 10 fl. oz. of this product per 200 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use, drain the tank. Add 10 fl. oz. to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths. **[NOT FOR USE IN CALIFORNIA]**

HYDROTHERAPY TANKS - Add 2 fl. oz. of this product per 1000 gallons of water to obtain a chlorine residual of 1 ppm, as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly, and clean before refilling.

SEWAGE & WASTEWATER EFFLUENT TREATMENT

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting wastewater disinfection:

1. **Mixing:** It is imperative that the product and the wastewater be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.
2. **Contacting:** Upon flash mixing, the flow through the system must be maintained.
3. **Dosage/Residual Control:** Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

SEWAGE AND WASTE WATER TREATMENT

EFFLUENT SLIME CONTROL - Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 20 to 200 fl. oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 3 fl. oz. of this product with 100 gallons of water.

FILTER BEDS - SLIME CONTROL: Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 128 fl. oz. of product per 20 sq/ft evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.

DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL/SYSTEMS)

PUBLIC SYSTEMS - Mix a ratio of 2 fl. oz. of this product to 100 gallons of water, Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

INDIVIDUAL SYSTEMS: DUG WELLS - Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 2 fl. oz. of this product

into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS - Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 2 fl. oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of the pump cylinder with the sanitizer. Drop pipeline into the well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed from the water, Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer to the well. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS - Artesian Wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

EMERGENCY DISINFECTION - When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 3 drops of this product to 20 gallons of water. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times. This process has not been demonstrated to inactivate Cryptosporidium cysts.

PUBLIC WATER SYSTEMS

RESERVOIRS: ALGAE CONTROL - Hypo chlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

MAINS - Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

NEW TANKS, BASINS, ETC. - Remove all physical soil from surfaces. Place 40 fl. oz. of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and place in service.

NEW FILTER SAND - Apply 160 fl. oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

NEW WELLS - Flush the casing with a 50 ppm available chlorine solution of water containing 10 fl. oz. of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

EXISTING EQUIPMENT - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 34 fl. oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 10 fl. oz. of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS

WELLS - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 10 fl. oz. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Retreat well if water samples are biologically unacceptable.

RESERVOIRS - in case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

BASINS, TANKS, FLUMES, ETC. - Thoroughly clean all equipment, then apply 40 fl. oz. of product per 5 cu. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours, drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 10 fl. oz. of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

FILTERS - When the sand filter needs replacement, apply 160 fl. oz. of this product for each 150 to 200 cubic feet of sand.

When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 75 fl. oz. per 20 sq. ft. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 160 fl. oz. of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter, After 4 to 6 hours, drain, and proceed with normal backwashing,

DISTRIBUTION SYSTEM - Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after 24 hour retention time. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER FIRES

CROSS CONNECTIONS OF EMERGENCY CONNECTIONS - Hypochlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER DROUGHTS

SUPPLEMENTARY WATER SUPPLIES - Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 minute contact time. Use a chlorine test kit.

WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC. - Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes, This solution is made by mixing 10 fl. oz. of this product for each 10 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER MAIN BREAKS

MAINS - Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual of test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

COOLING TOWER/EVAPORATIVE CONDENSER WATER

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 95 to 200 fl. oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 20 fl. oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 95 to 200 fl. oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 20 fl. oz. of this product per 10000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 95 to 200 fl. oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2 fl. oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

AGRICULTURAL USES [Disinfection]

Disinfect leaf-cutting bee cells and bee boards by immersion in a solution containing 1 ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours or until no chlorine odor can be detected. This solution is made by thoroughly mixing 2 tsp. of this product to 100 gallons of water. The bee domicile is disinfected by spraying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has dissipated. [Not for use in California]

PULP AND PAPER MILL PROCESS WATER SYSTEMS

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 95 to 200 fl. oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 20 fl. oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 95 to 200 fl. oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 20 fl. oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 95 to 200 fl. oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2 fl. oz. of this product per 1000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

SANITIZING [To Sanitize] [Non-Food Contact]: [Choose one or more sets of direction from the following. Several versions of wording are offered to provide supplemental distributors with options.]

Bathroom: Bathtub, tub, counter[tops], faucets, floors, glazed ceramic tile, glazed porcelain, showers, non-porous shower curtains, shower walls, sinks, vinyl, walls

Bathroom: [To] Sanitize and deodorize [may add use site from Bathroom list above.]

1. Use 2 teaspoons per gallon of water.
2. Wash, rinse or wipe surface and then apply sanitizing solution.
3. Let stand 5 minutes, and air dry.

To Sanitize Hard Non-Porous Surfaces:

1. Use 2 teaspoons of bleach per gallon of water.
2. Wash, rinse or wipe surface and then apply sanitizing solution.
3. Let stand 5 minutes and air dry.

For Sanitizing – Mix 2 teaspoons per gallon of water.

Floors, Walls: Pre-wash surfaces and rinse. Spray, rinse or wipe surface with bleach solution, let stand for 5 minutes. Drain and air dry.

Sanitizing [To Sanitize] Your Pet's Food Bowles and Litter Boxes[^]

1. Wash thoroughly with water and dish detergent.
2. Sanitize bowls with 2 teaspoons of bleach per gallon of water.
3. Let stand for 5 minutes, then rinse and allow to dry.

[^] For litter boxes, repeat step 1, use ½ cup bleach mixed with ¾ gallon [3 qts;] [96 fl. oz.] of water for step 2, then repeat step 3.

Sanitizing [To Sanitize] Children's Hard Non-porous Furniture and Toys:

1. Ensure all surfaces are colorfast. Wash all surfaces thoroughly.
2. To kill 99.9% germs, use a solution of 2 teaspoons of bleach per gallon of water to sanitize children's surfaces.
3. Let stand for 5 minutes, then rinse and allow to dry.

SANITIZING [To Sanitize] [Food Contact Surfaces]: Directions based on EPA's 1986 standard. Choose one or more sets of direction from the following. Several versions of wording are offered to provide supplemental distributors with options.]

For Sanitizing - Mix 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water.

Work Surfaces: Pre-wash with detergent, rinse, cover surface with bleach solution for at least 2 minutes, drain, let air dry.

Dishes, Glassware, Utensils: After washing, soak for at least 2 minutes in bleach solution. Drain and let air dry.

Bathtubs, Showers: Wash, rinse, apply bleach solution for at least 2 minutes, drain and let air dry.

Refrigerators, Freezers: Wash, rinse, apply bleach solution for at least 2 minutes, drain and let air dry.

Before using this product, remove or carefully protect food. Remove gross food particles from surface. Pre-wash surface with a good detergent and rinse thoroughly with potable water. Mix approximately 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water to prepare a 200 ppm available chlorine solution. Cover surface with bleach solution for at least 2 minutes. Air dry.

Directions for Sanitizing [To Sanitize] Eating and Drinking Utensils:

Prepare sanitizing solution immediately prior to use.

1. Scrape and pre-wash utensils and glass whenever possible.
2. Wash with good detergent or compatible cleaner.
3. Rinse with clean water.
4. Sanitize in solution of 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water (200 ppm).
5. Immerse utensils at least 2 minutes or for contact time specified by governing sanitary code.
6. Do not reuse sanitizing solution.

[Warewashing] [For] Sanitizing [To Sanitize] Tableware in Low Temperature Dishwashing Machine -

Dispense this product into final rinse water at 100 ppm available chlorine. Do not allow concentration to fall below 50 ppm. Air dry. Dispenser should be set to deliver 6 cc of sanitizing solution per gallon of water to give approximately 100 ppm of available chlorine. Only a qualified service representative should set or adjust dispenser on the machine.

Plastic Cutting Boards:

1. Wash with water and dish detergent.
2. Clean with a solution of 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water.
3. Let stand 2 minutes, then rinse with water and allow to air dry.

Wooden Cutting Boards:

1. Wash with water and dish detergent.
2. Clean with a solution of 1 Tablespoon of bleach per 7 cups of water.
3. Let stand 2 minutes, then rinse with a solution of 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water and allow to dry.

Sanitizing [To Sanitize] Non-porous Food Contact Surfaces: Before using this product, remove or carefully protect food. Remove gross food particles from surface. Pre-wash surface with a good detergent and rinse thoroughly with potable water. Mix approximately 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water to prepare a 200 ppm available chlorine solution. Cover surface with bleach solution for at least 2 minutes. Air dry.

Sanitizing [To Sanitize] Non-porous Food Contact Surfaces: Prepare a sanitizing solution by thoroughly mixing 2 Tbsp. (1 fl. oz.) of this product with 2 ½ gallons of water to provide approximately 200 ppm available chlorine by weight. Clean all surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

Sanitizing [To Sanitize] Porous Food Contact Surfaces: Prepare a solution of approximately 600 ppm by thoroughly mixing ¼ cup. (2 fl. oz.) of this product with 1 ¾ gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 Tbsp. (1 fl. oz.) of this product with 2 ½ gallons of water. Prior to using equipment, rinse all surfaces with 200 ppm available chlorine solution. Do not rinse with water and do not soak equipment overnight.

Egg Shell Sanitizing - Thoroughly clean eggs. Mix approximately 2 teaspoons [(0.34 fl. oz.)] of bleach per 1 gallon of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

To Sanitize Milking Equipment: Prepare sanitizing solution by mixing 2 teaspoons [(0.34 fl. oz.)] of bleach per gallon of water immediately prior to use. All surfaces to be sanitized should be properly cleaned before application of chlorine solution. Milking utensils should be submerged in the solution for at least 2 minutes and allowed to drain. Do not rinse equipment with water after treatment. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

SANITIZING [To Sanitize] [Toilet Bowl]: [Directions based on EPA's 1986 standard. Choose one or more sets of direction from the following. Several versions of wording are offered to provide supplemental distributors with options.]

Toilet Bowls: To sanitize and deodorize pre-cleaned toilet bowls, use 1 cup of VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25% [or this product][or bleach].

1. Flush, pour in bleach – swab with brush, making sure to get under the rim.
2. Let stand for 10 minutes.
3. Flush. DO NOT use with bowl cleaners or any other household chemicals.

Toilet Bowl: To sanitize and deodorize pre-cleaned toilet bowls, use 1 cup of VERTEX GERMICIDAL CONCENTRATED BLEACH 8.25% [or this product] [or bleach]. Flush, pour in bleach – swab with brush, making sure to get under the rim. Let stand for 10 minutes. Flush. DO NOT use with bowl cleaners or any other household chemicals.

[Following Directions were derived from EPA's 1986 Standard Sodium Hypochlorite Directions, dosages adjusted.]

Household Laundry Sanitizers

IN SOAKING SUDS - Thoroughly mix 4 fl. oz. of this product to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.

IN WASHING SUDS - Thoroughly mix 4 fl. oz. of this product to 10 gallons of wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent and start the wash/rinse cycle.

Commercial Laundry Sanitizers

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 4 fl. oz. of this product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 12 fl. oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 12 fl. oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 12 fl. oz. of this product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain, Vacate area for at least 2 hours.

SANITIZATION OF POROUS FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 12 fl. oz. of this product with 10 gallons of water to provide 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes and allow the sanitizer to drain. Prepare a 200 ppm sanitizing solution by thoroughly mixing 4 fl. oz. of this product with 10 gallons of water and rinse all surfaces with this 200 ppm solution. Do not rinse with water and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 12 fl. oz. of this product with 10 gallons of water to provide 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution, maintaining contact for at least 2 minutes and allow the sanitizer to drain.

Following this, prepare a 200 ppm sanitizing solution by thoroughly mixing 4 fl. oz. of this product with 10 gallons of water and rinse all surfaces with this 200 ppm solution. Do not rinse with water and do not soak equipment overnight.

SPRAY METHOD – Pre-clean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 12 fl. oz. product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 4 fl. oz. of this product with 10 gallons of water.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 4 fl. oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner, Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 4 fl. oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY METHOD – Pre-clean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 4 fl. oz. product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

RINSE METHOD - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 2 fl. oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 4 fl. oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual, Do not rinse equipment with water after treatment and do not soak equipment overnight.

Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

IMMERSION METHOD - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 2 fl. oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 4 fl. oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

FLOW/PRESSURE METHOD - Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 4 fl. oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

CLEAN-IN-PLACE METHOD - Thoroughly clean equipment after use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 4 fl. oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

SPRAY METHOD – Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 4 fl. oz. product with 10 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 12 fl. oz. product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with 600 ppm solution with a 200 ppm solution.

AGRICULTURAL USES [Sanitizing/Washing]

POST-HARVEST PROTECTION - Potatoes can be sanitized after clearing and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per ton of potatoes. Thoroughly mix 2 fl. oz. (4 Tablespoons) of this product to 2 gallons of water to obtain 500 ppm available chlorine.

FOOD EGG SANITIZATION - Thoroughly clean all eggs. Thoroughly mix 4 fl. oz. of this product with 10 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130 degrees F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

FRUIT & VEGETABLE WASHING - Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 10 fl. oz. of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

SANITIZATION OF DIALYSIS MACHINES

Flush equipment thoroughly with water prior to using this product. Thoroughly mix 12 fl. oz. of this product to 10 gallons of water to obtain at least 600 ppm available chlorine. Immediately use this product in the hemodialysate system allowing for a minimum contact time of 15 minutes at 20 degrees C. Drain system of the sanitizing solution and thoroughly rinse with water. Discard and DO NOT reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to ensure that no available chlorine remains in the system.

This product is recommended for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an effective disinfectant (*virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant program which includes bacteriological monitoring of the hemodialysate delivery system. This product is NOT recommended for use in hemodialysate or reverse osmosis (RO) membranes.

Consult the guidelines for hemodialysate systems which are available from the Hepatitis Laboratories, CDC, Phoenix, AR 85021.

AQUACULTURAL USES

FISH PONDS - Remove fish from ponds prior to treatment. Thoroughly mix 200 fl. oz. of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.

FISH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. Thoroughly mix 4 fl. oz. of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

MAINE LOBSTER PONDS - Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 12,000 fl. oz. of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond and then close the gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open and allow 2 tidal cycles to flush the pond before returning lobsters to the pond. **[NOT FOR USE IN CALIFORNIA]**

CONDITIONING LIVE OYSTERS - Thoroughly mix 10 fl. oz. of this product to 10,000 gallons of water at 50 to 70 degrees F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50 degrees F. **[Not for use in California]**

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing 200 ppm of available chlorine by mixing 4 fl. oz. of product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

ARTIFICIAL SAND BEACHES

To sanitize the sand, spray a 500 ppm available chlorine solution containing 10 fl. oz. of this product per 10 gal. of water at frequent intervals. Small areas can be sprinkled with a watering can. **[Not for Use in California]**

ASPHALT OR WOOD ROOFS AND SIDINGS

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine solution, Mix 10 fl. oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water. **[Not for Use in California]**

BOAT BOTTOMS

To control slime on boat bottoms sling a plastic tarp under boat, retaining enough *water* to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 35 fl. oz. of this product to this water to obtain a 35 ppm available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlorine level has dropped to 0 ppm, as determined by a swimming pool test kit. **[Not for Use in California]**

[Directions (from other parts of the label) in Table Form:]		other directions from body of label may be used	
FOR DISINFECTING	Amount of (this product)	Amount of Water	Instructions
Floors & Walls, Bathtubs, Showers	1/2 Cup	3/4 gallon (3 qts.) (96 fl.oz.)	Pre-wash surfaces and rinse. Spray, rinse or wipe surface with bleach solution, let stand for 5 minutes. Rinse, drain and air dry.
FOR SANITIZING	Amount of (this product)	Amount of Water	Instructions
Work Surfaces	2 Tablespoons	1 Gallon	Pre-wash with detergent, rinse, cover surface with bleach solution for at least 2 minutes, drain, let air dry.
Dishes, Glassware, Utensils	2 Tablespoons	1 Gallon	After washing, soak for at least 2 minutes in bleach solution. Drain and let air dry.
Refrigerators, Freezers	2 Tablespoons	1 Gallon	Wash, rinse, apply bleach solution for at least 2 minutes, drain, let air dry.
Laundry	1 cup (1/2 cup)	16 Gallon (8 Gallon)	Dilute product with 1 quart wash water and add to pre-soak. Immerse laundry for at least 10 minutes prior to starting the wash/rinse cycle.
Mops, Brushes, Brooms & Rugs	1 Tablespoon	3/4 gallon (3 qts.) (96 fl.oz.)	Pre-wash items then soak them in bleach solution for at least 10 minutes. Rinse well.
FOR DEODORIZING	Amount of (this product)	Amount of Water	Instructions
Garbage Cans	1/2 Cup	3/4 gallon (3 qts.) (96 fl.oz.)	After washing and rinsing, brush inside with bleach solution. Empty and let drain.
Drains	1/2 cup	-----	Flush drain. Pour into drain. Flush with hot water.
FOR MOLD, MILDEW, & STAIN REMOVAL	Amount of (this product)	Amount of Water	Instructions
All Surfaces	1/2 Cup	1 Gallon	Add bleach to powdered detergent solution. Apply, let stand for at least 5 minutes. Wipe and Rinse.
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[Optional Table of Proportions]
[Proportions for dilution of this product]

(PROPORTIONS ARE ONLY PROVIDED ON MARKETING LABEL FOR THOSE USE SITES THAT ARE USED AND INCLUDE THE REQUESTED PPM LEVEL)

TABLE OF PROPORTIONS – AVAILABLE CHLORINE

3 ppm – 6 fl. oz. per 1000 gallons water
5 ppm - 10 fl. oz. per 1000 gallons water
10 ppm - 15 fl. oz. per 1000 gallons water
15 ppm - 3 fl. oz. per 100 gallons water
25 ppm - 10 fl. oz. per 200 gallons water
50 ppm - 10 fl. oz. per 100 gallons water
100 ppm - 2 fl. oz. per 10 gallons water
200 ppm - 2 teaspoons per 1 gallon water
200 ppm - 4 fl. oz. per 10 gallons water
500 ppm - 10 fl. oz. per 10 gallons water
600 ppm - 12 fl. oz. per 10 gallons water
800 ppm - 6 fl. oz. per 5 gallons water
1000 ppm - 20 fl. oz. per 10 gallons water
5000 ppm - 10 fl. oz. per 1 gallon water

List of Tested Microorganisms

This product is an effective disinfectant on non-porous surfaces for these microorganisms

The contact times for all tests were 5 minutes

The dilution rate for all tests were the equivalent of 1/2 cup product in one gallon of water

Pseudomonas aeruginosa (ATCC15442)
Salmonella enterica (ATCC 10708)
Staphylococcus aureus (ATCC 6538)
Influenza A virus (H1N1) (ATCC VR-1469)
Adenovirus type 5 (ATCCVR-5)
Methicillin Resistant Staphylococcus aureus- MRSA (ATCC 33592)
Trichophyton mentagrophytes (ATCC 9533)
Aspergillus brasiliensis (ATCC 16404)
Rhinovirus type 37 (ATCC VR-1147)
Avian Influenza A (H3N2) Reassortant virus (ATCC VR-2072)
Legionella pneumophila (ATCC 33153)
Human Immunodeficiency Virus type 1
Escherichia coli 0157:H7 (ATCC 35150)
Streptococcus pyogenes (ATCC 19615)