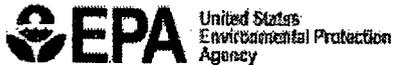


5813-1

5/14/2008

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FILE COPY

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



Office of Pesticide Programs

May 14, 2008

Elisa Estremera-Pasky  
The Clorox Company  
c/o PS&RC  
P.O. Box 493  
Pleasanton, CA 94566-0803

Subject: Clorox Bleach  
EPA Registration No. 5813-1  
Application Date: March 28, 2008  
Receipt Date: April 1, 2008

Dear Ms. Estremera-Pasky:

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable with conditions

**Conditions**

1. Under the disinfecting floors, walls, vinyl and tile directions for use, place the 6 oz. beneath  $\frac{3}{4}$  cup on page 2 of the label.
2. Change "***Salmonella choleraesuis*** to ***Salmonella enterica***" everywhere it appears on the label.
3. The original contact time for Laundry on page 8 of the label was 5 minutes for all organisms. The contact time for Canine and Feline Parvovirus has been extended to 10 minutes. How will the user be able to determine if these organisms are present and would require the 10 minute contact time? Provide that information/data to support this longer contact time.
4. Remove the "s" from mold under the "Fungicidal \*\*Efficacy" directions for use.

- 5. The dosage rates for **Emergency Disinfection** use directions under "hurricanes, tornados, earthquakes and tsunamis" were changed to be consistent with the dilution table on page 28 of the label. However, the proposed use dilution rates are not on the table on page 28. Therefore, the dosage rates have been returned to those on the previously accepted label until such time as information/data is submitted to support these changes.
- 6. The directions for use above the first measurement table on page 17 are consistent with 6, 3 and 1 ounces and 1 teaspoon. The measurement table does not provide for 3 oz. or 1 oz. of this product. The table provides a range but it is not clear to which directions for use it would be applicable. Since, there are no directions for use that correspond with 1/2 oz. or 1 drop in this section the amounts should be eliminated.
- 7. The **Hand Sanitizing** claim which falls under the purview of The Food and Drug Administration has been removed from the FIFRA label.
- 8. Correct the typographical error under Egg Sanitization as follows: "To sanitize **food** eggs: . ."
- 9. You have added a box at the bottom of page 20 that states "For directions on sanitizing and disinfecting specific surfaces, write: The Clorox Company . . ." The surfaces to be disinfected should be on the label.
- 10. The **Meat and Poultry Plant** directions for use identify certain alternate Confidential Statements of Formula that cannot be used. The labels should exclude Meat and Poultry directions for those specific formulations.

**General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Wanda Henson at (703) 308-6345.

Sincerely,

Emily H. Mitchell  
Product Manager - Team 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

Note: **Bold, italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text.]  
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ACTIVE INGREDIENT:	
SODIUM HYPOCHLORITE	5.25%
OTHER INGREDIENTS:	94.75%
TOTAL:	100.00%

Contains No Phosphorus  
(Yields -or- contains 5% available chlorine)



# BLEACH

ACCEPTED  
with COMMENTS  
EPA Letter Dated:  
MAY 14 2008

**GERMICIDAL  
APPLICATIONS**  
ESPECIALLY RECOMMENDED  
FOR FOOD SERVICE APPLICATIONS

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
**5813-1**

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING:** See back panel for additional precautionary labeling.

NET CONTENTS \_\_\_\_\_

Note: **Bold, italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text.]  
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EPA 05813-01 Clorox Bleach  
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# CLOROX® Bleach

For a cleaner, fresher laundry and household

This product, a germicide -and/or- broad spectrum disinfectant, is a 5.25% sodium hypochlorite solution containing 5% available chlorine by weight. This product can be used on hard, nonporous surfaces in homes, hospitals, commercial, institutional, and eating establishments, pet kennels, and veterinary premises.

One tablespoon of this product in a gallon of water is equivalent to 200 parts per million (ppm) available chlorine. DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

## DIRECTIONS FOR USE

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

	Amount of this product	Amount water	Instructions
<b>FOR SANITIZING</b>			
Work Surfaces	1 Tbsp	1 Gallon	Wash, rinse, wipe surface area with bleach solution for at least 1 minute, let air dry.
Dishes, Glassware, Utensils	1 Tbsp	1 Gallon	Wash and rinse. After washing, soak for at least 1 minute in bleach solution, drain and air dry.
Refrigerators, Freezers	1 Tbsp	1 Gallon	Wash, rinse, wipe surface area with bleach solution for at least 1 minute, let air dry.
Mops, Brushes, Sponges, Brooms and Rags	3/4 Cup (6 oz)	1 Gallon	Pre-wash items, then soak them in bleach solution for at least 1 minute. Rinse well and air dry.
<b>FOR DISINFECTING</b>			
Floors, Walls Vinyl, Tiles	3/4 Cup ( <del>1/2</del> )	1 Gallon <del>(6 oz)</del>	Pre-wash surface, mop or wipe with bleach solution. Allow solution to contact surface for at least 2 minutes. Rinse well and air dry.
Bathtubs, Showers and Kitchen Sinks	3/4 Cup (6 oz)	1 Gallon	Pre-wash surface [ and ] Wipe with bleach solution. Allow solution to contact surface for at least 2 minutes. Rinse well and air dry.
Laundry	1 Cup	Standard Washer	Use 1 1/2 cups bleach for extra large washers -or- heavily soiled loads. Use a detergent.
<b>FOR DEODORIZING</b>			
Garbage Cans	3/4 Cup (6 oz)	1 Gallon	After washing and rinsing, brush inside with bleach solution. Let drain.
Drains	1 Cup	—	Flush drains. Pour into drain. Flush with hot water.
<b>FOR BLEACHING/WHITENING</b>			
Wooden Surfaces	3/4 Cup (6 oz)	1 Gallon	Apply for [at least] 2 minutes, rinse.
<b>FOR MOLD[,] [AND] MILDEW [AND STAIN] REMOVAL</b>			
All Surfaces	3/4 Cup (6 oz)	1 Gallon	Add bleach to [powdered] detergent solution. Apply, let stand 2 -or- 5-15 minutes. Wipe and rinse.

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#### GENERAL/CLEANING/STAIN REMOVAL/DEODORIZING CLAIMS:

- America's Cleanest Clothes
- Authentic -and/or- Classic clean
- Better smell[ing] [scent] [fragrance]
- Bigger value pack
- Bleaches Out Tough Stains
- Boosts cold water cleaning [power]
- Brightens whites and removes stains
- Cleanest clean
- [Clorox®] a tradition of clean
- [Clorox® Bleach is] safe for many color-fast washables
- [Clorox®] for a higher standard of clean
- [Clorox®] works hard so you don't have to
- Deodorizer
- Deodorizes
- [Even after 50 washloads.] Clorox® Bleach, used as directed, does not wear down fabric [any more than using detergent alone]
- Extra Value Pack
- Family size -or- pack
- Fiber safe
- For the Whitest Whites! Use this product and New Catalyst Cleaning Action Washer Technology
- For use in High-Efficiency washing machines
- Gets even your dirtiest clothes white
- Gets rid of [invisible] body soil [detergent may leave behind]
- Giant size -or- pack
- Good for hospitals, good for homes
- Great for cold water [cleaning]
- HE -or- High Efficiency Compatible
- Improved Whitening!
- It's from Clorox®, so [you know] [you can trust [it]] [the clean] ] [it's more than clean]
- Keeps day care centers clean
- King size -or- pack
- Looks clean, smells clean, know it's clean
- Low -or- Better odor
- Power for the purest clean
- Removes -or- Eliminates Odors
- Removes [Tough] Stains
- Removes what you can see [, what you can smell,] and what you can't [see]
- Safe for [most] colorfast washables
- [Still -or- When used as directed,] safe for all your bleachable wash loads
- Super-size -or- pack
- Super value pack
- The power of Clorox® [bleach], the smell of clean
- The power -or- brand you trust
- The way clean homes are supposed to be
- There's nothing like a Clorox® [bleach] clean
- This Product For a Cleaner, Fresher, Laundry and Household
- Trusted in hospitals...treasured in homes
- Trusted -or- Pure [white] clean [since 1913] [for nearly 100 years]
- Try Clorox 2 [- the Clorox bleach for colors]
- Unbeatable Whitening
- Use 1 cup for WHITER WHITES
- [Use] for a higher standard of clean
- Use in hospitals [on hard, nonporous surfaces]
- Value size -or- pack
- White just got whiter
- Whitens bleachable fabrics
- Whitens [and removes stains]
- Whitens whites
- Whitest whites
- Why use 1 cup of this product?
- You will notice the difference in whitening when you use a whole cup of this product

#### *for institutional products*

- For Institutional Use [Only] [Not for Resale]

#### SANITIZING/DISINFECTING/VIRUCIDAL CLAIMS:

- Clean. Disinfect. Protect[?]. [Protect against germs on hard, nonporous surfaces]
- Clean[ing] -and/or- disinfect[ing] -and/or- protect[ing] [the] [your] [bathroom] [restroom] [kitchen] [house] [home] [office] [work -or- office] [place] [area] [environment]] [laundry] against -or- from [99.9% of] [household] germs -and/or- bacteria -and/or- viruses
- Cleans [and disinfects]
- Clean[s] -and/or- disinfect[s] -and/or- protect[s] [the] [your] [bathroom] [restroom] [kitchen] [house] [home] [office] [work -or- office] [place] [environment] [laundry] [clothes]] against -or- from [99.9% of] [household] germs -and/or- bacteria -and/or- viruses
- [Clean[s] away -or- out and] [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] bacteria -and/or- germs -and/or- viruses [commonly found in] [kitchens] [bathrooms] [restrooms] [households] [homes] [offices] [work -or- office] [places] [environments] [areas]] [laundry]]
- Disinfect for a Clorox® [bleach] clean
- Disinfects and deodorizes by killing bacteria and their odors
- Disinfects day care centers
- Disinfects [laundry]
- Disinfects your baby's -or- workout clothes -or- laundry
- Eliminates germs and bacteria
- Especially recommended for Food Service Germicidal Applications
- [Fight[s]] [Kill[s]] [Effective] [Protect[s]] [against] Salmonella -and/or- E. coli -and/or- Hepatitis A
- [Fight[s]] [Kill[s]] [Effective] [Protect[s]] [against] [the] avian influenza [virus]
- [Fight[s]] [Stop[s]] [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] germs -and/or- bacteria -[and/or- mold -and/or- viruses] [that [can] cause [the] [common] cold -and/or- flu] [in your home -and/or- office -or- work] [place] [area] [environment]] [school] [classroom]] [in your laundry]
- [Fight[s]] [Stop[s]] [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] germs -and/or- bacteria -and/or- viruses [that [can] cause the [common] cold -and/or- flu] [in your home -and/or- office -or- work] [place] [area] [environment]] [school] [classroom]] [in your laundry]
- [Fight[s]] [Stop[s]] [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] germs -and/or- bacteria -and/or- viruses [that [can] cause the [common] cold -and/or- flu] [in your home -and/or- office -or- work] [place] [area] [environment]] [school] [classroom]] [in your laundry]
- Flu Fighter[s]!!
- Free disinfecting -and/or- sanitizing instruction chart -or- brochure enclosed
- Fungicidal/Fungicide
- Germicidal/Germicide

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**SANITIZING/DISINFECTING/VIRUCIDAL CLAIMS continued:**

- Help prevent the spread of [the] cold and flu viruses [in your home -or- office]
- Kill[s] [99.9% of] [common] [household -or- laundry] germs
- Kills 99.9% of household germs and viruses in your laundry: Rhinovirus Type 37, Rotavirus WA, Hepatitis A virus, Influenza A2, Klebsiella pneumoniae and Staphylococcus aureus
- Kills [99.9% of] [household] mold [and mildew]
- Kill[s] bacteria on the surfaces your kids touch every day
- Kills bacteria that cause odor -or- [make clothes smell] [in your laundry -or- workout clothes]
- Kills bacteria, viruses~~†~~, mold and mildew
- Kills E. coli [where it lurks]
- Kills household viruses~~‡~~ that cause colds and the flu: Rhinovirus Type 37 and Influenza A2
- Kills [many] germs -and/or- bacteria
- Kills mold [dead]
- Kills surface germs and bacteria [Staph, Salmonella, and [the] Influenza A2 [virus]]
- Kills [the] cold -and/or- flu virus[es]
- Kills [the] germs around your home -or- house
- Powerful germ killer
- Removes bacteria -and/or- body soil [detergent leaves behind]
- Remove[s] bacteria from your children's toys
- [Removing] [Killing] [Trusted to kill] [Fighting] [Eliminating] germs -and/or- bacteria -and/or- viruses [since 1913] [for nearly 100 years]
- Sanitizer
- Sanitizes
- The smart way to disinfect
- Tuberculocidal/Tuberculocide
- Virucidal/Virucide

Also kills Adenovirus Type 2, Hepatitis A, Cytomegalovirus, Respiratory Syncytial Virus, Varicella zoster Virus, Herpes Virus 2 (Herpes), Canine parvovirus<sup>†</sup>, Feline Parvovirus<sup>†</sup>, Rubella virus (German measles virus), Mycobacterium bovis<sup>††</sup> (Tuberculosis) and Shigella dysenteriae.

<sup>†</sup> 10 minute contact time  
<sup>††</sup> 1 3/4 cup /gal 5 minute contact time

**for front**

- Kills [99.9%] of [common household] germs.\*

**for back**

\* Kills [99.9%] of [common household] germs:  
Staphylococcus aureus (Staph), Streptococcus pyogenes (Strep), Salmonella choleraesuis (Salmonella), Pseudomonas aeruginosa (Pseudomonas), Influenza A2, Rhinovirus Type 37 (viruses that cause colds and flus), Trichophyton mentagrophytes (Athlete's Foot Fungus), Rotavirus, Escherichia coli O157:H7 (E. coli) and Aspergillus niger.

**for front**

- Kills [99.9%] of [common household] bacteria.\*

**for back**

\* Kills [99.9%] of [common household] bacteria: Staphylococcus aureus (Staph), Streptococcus pyogenes (Strep), Salmonella choleraesuis (Salmonella), Pseudomonas aeruginosa (Pseudomonas), and Escherichia coli O157:H7 (E. coli).

**for front**

- Kills [99.9%] of [common household] germs.\*

\* Salmonella, E. coli, Staph, and Strep\*\*

**for side or back panel**

\*\* Salmonella choleraesuis (Salmonella), Escherichia coli O157:H7 (E. coli), Staphylococcus aureus (Staph), Streptococcus pyogenes (Strep).

**ALLERGEN REMOVAL/DESTRUCTION CLAIMS:**

- Removes -or- Breaks down animal -or- pet dander allergens on household surfaces

**The following is only for products with medical devices listed on the label:**

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.

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[DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.]



**HOUSEHOLD [HINT] [USE]**  
**Disinfect Flower Pots and Planters**  
Cleaning flower containers helps prevent the transfer of molds and diseases from old plants to new ones. Wash and [thoroughly] rinse pots and planters. Soak 2 minutes in a solution of 3/4 cup of this product to one gallon of water, then rinse.



**HOUSEHOLD [HINT] [USE]**  
**Sanitize Pet's Food and Water Bowls**  
To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 1 tablespoon of this product per gallon of water. Let stand 1 minute, drain and air dry.



**HOUSEHOLD [HINT] [USE]**  
**Deodorizing Cat's Litter Box**  
Unpleasant cat box odors can be eliminated when this product is used to kill odor-causing germs. Wash litter box with sudsy water and rinse. Then wipe with a solution of 3/4 cup of this product per gallon of water. Let solution stand 2 minutes before rinsing thoroughly.



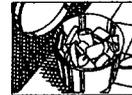
**HOUSEHOLD [HINT] [USE]**  
**Keep Wading Pools Sanitary**  
This product is excellent for chlorinating wading pools. As a general rule, use 1/8 cup per 100 gallons of water. For example, an 8-foot diameter pool holding 1 foot of water would require 1/2 cup of this product. To chlorinate, mix required amount of bleach with 2 gallons of water and scatter over surface of empty pool. Fill remainder of pool with water. Empty small pools daily. 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.



**HOUSEHOLD [HINT] [USE]**  
**Removing Mold and Mildew**  
[Mold and mildew in the bathroom can be removed easily and effectively using this product.] Simply wipe down surfaces using a solution of 3/4 cup of this product to each gallon of warm water. Keep surface wet 5 minutes; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces. -or- Add [3/4 cup] bleach to [powdered] detergent solution [per gallon of water]. Apply, let stand for 5 minutes. Wipe and rinse.



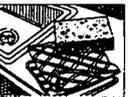
**HOUSEHOLD [HINT] [USE]**  
**Removing Patio Moss and Mildew Stains**  
Patio moss and mildew stains can be unsightly, slippery and dangerous. Hose patio to remove loose debris. Then use this product to remove moss and mildew stains by washing the area with a solution of 3/4 cup of this product to 1 gallon of water. Reapply the solution as needed to keep the area wet for at least 2 minutes. Brush as needed to remove moss and then rinse thoroughly. [Do not use on painted wood.]



**HOUSEHOLD [HINT] [USE]**  
**Eliminating Garbage Can Odors**  
This product can deodorize and sanitize your garbage cans by eliminating the bacteria that cause odors. Wash garbage cans with soapy water and rinse. Then to deodorize and sanitize, swish a solution of 3/4 cup of this product per gallon of water over the inside of the can. Let the solution stand 2 minutes before rinsing.



**HOUSEHOLD [HINT] [USE]**  
**Keep Cut Flowers Fresh Longer**  
Fresh cut flowers will stay beautiful longer if you add 1/4 teaspoon of this product to each quart of cold water. This product can also be used to remove flower vase stains and odors. Wash the vase thoroughly and then fill with a solution of 3/4 cup bleach to one gallon water. Let stand 5 minutes before rinsing.



**HOUSEHOLD [HINT] [USE]**  
**Sanitizing Kitchen Cloths**  
This product can help you deodorize and sanitize dishcloths and synthetic sponges while cleaning your sink at the same time. Fill sink with a gallon of water. Add 3/4 cup of this product. Soak kitchen cloths in solution for [at least] 2 minutes, then rinse sink and cloths. Allow to air dry.



**HOUSEHOLD [HINT] [USE]**  
**Eliminating Refrigerator Odors**  
This product kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Wash surfaces with a solution of 3/4 cup of this product per gallon of water. Let stand 2 minutes. Rinse and then air dry interior surfaces a few minutes before replacing food.



**HOUSEHOLD [HINT] [USE]**  
**Sanitizing Baby Items**  
Baby bottles, nipples and dishes can be easily sanitized using this product. Soak washed items for 1 minute in a solution of 1 tablespoon of this product per gallon of water. Pour solution through nipples; then drain.



**HOUSEHOLD [HINT] [USE]**  
**Christmas Trees Fresher Longer**  
To prolong the life of a fresh cut tree, instead of using plain water in the tree stand bowl, use a solution of 2 teaspoons of this product, 1/2 gallon hot water, 1 cup corn syrup and 1/8 cup powdered chelated iron (available from local nurseries).

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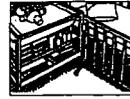
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**HOUSEHOLD [HINT] [USE]**  
**Removing Exterior Mold**  
Mold [growing] on washable and colorfast exterior surfaces of your home, like siding, tile roofs, brick, stucco and patio stone, can be easily removed using this product. First, hose surfaces to remove loose soil. Then apply a solution of 3/4 cup of this product per 1 gallon of water to wet surfaces. Reapply the solution as needed to keep the area wet for at least 2 minutes. Rinse thoroughly to remove residue. [Avoid applying solution in direct sunlight or to unfinished wood.] Rinse quickly and thoroughly if solution comes in contact with aluminum window frames or gutters since metal corrosion may occur.



**HOUSEHOLD [HINT] [USE]**  
**Sanitize and Remove Stains from Kitchenware**  
Tough stains can be removed from dinnerware, dishes, plastic and glassware with this product. Plus, this product cleans and sanitizes. Wash items; then rinse, and soak for 1 minute in a solution of 1 tablespoon of this product to each gallon of water. Then drain and air dry.



**HOUSEHOLD [HINT] [USE]**  
**Disinfecting Baby Furniture and Toys**  
Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast toys are disinfected quickly and easily with this product. Plus, this product kills 99.9% of all common household germs, including those that cause odors. This product leaves baby's room clean and fresh smelling. Disinfect with a solution of 3/4 cup of this product in one gallon of water. Let stand 2 minutes. Rinse and [air] dry.



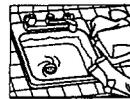
**HOUSEHOLD [HINT] [USE]**  
**Sanitize Wooden Cutting Boards**  
1) Wash, wipe or rinse items with detergent and water.  
2) Apply sanitizing solution of 3 tablespoons of this product per gallon of water.  
3) Let stand 2 minutes.  
4) Rinse all surfaces with a solution of 1 tablespoon of this product per gallon of water.  
5) Do not rinse or soak equipment overnight.



**HOUSEHOLD [HINT] [USE]**  
**Kitchen and Bathroom:**  
Clean, disinfect and deodorize sinks, countertops, bathtubs, showers, floors, vinyl and tile.  
1) Wash, wipe or rinse items with water.  
2) Apply disinfecting solution of 3/4 cup of this product per gallon of water.  
3) Let stand 2 minutes before rinsing.  
4) Rinse thoroughly and air dry.



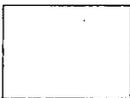
**HOUSEHOLD [HINT] [USE]**  
**Toilet Bowls:**  
Disinfect and deodorize your toilet.  
1) Flush toilet.  
2) Pour 1 cup of this product into bowl.  
3) Brush entire bowl, including rim, with a scrub brush or mop.  
4) Let stand 2 minutes before flushing again.



**HOUSEHOLD [HINT] [USE]**  
**Recharge Instructions for HaloSource® [Treated] Products in Sink:**  
**[To Recharge [the] antimicrobial power:]**  
Fill sink with a gallon of water. Add 3/4 cup of this product. Soak HaloSource® [treated] products in solution for [at least] 2 minutes, then rinse products and sink. Allow to air dry.



**HOUSEHOLD [HINT] [USE]**  
**Washer -or- Recharge Instructions for HaloSource™ [Treated] Products: Before Use:** Wash in a [normal] laundry load with 1 cup of this product to activate [the] antimicrobial power. Laundry detergent [and fabric softener] may be added [to the load]. Dry in [the] dryer or air dry.  
**To Clean and Recharge [the] Antimicrobial Power:** Wash in a [normal] laundry load with detergent [and fabric softener] and 1 cup of this product. Dry in [the] dryer or air dry. Launder HaloSource™ [treated] products when visibly soiled -and/or- odor develops -and/or- during your regular laundry routine.



**HOUSEHOLD [HINT] [USE]**  
**Cold & Flu:**  
**[To] Prevent the Spread of Cold & Flu Viruses -or- [To] Kill [the] Flu Virus[es] [on Hard, Nonporous Surfaces]:**  
This product kills 99.9% of all common household germs to help prevent the spread of germs in high traffic areas and children's items. Disinfect cribs, high chairs, and washable colorfast toys quickly and easily with this product:  
Wash, wipe or rinse items with water. -or- Prewash items[.] [then] disinfect with a solution of 3/4 cup of this product per gallon of water. Let stand 2 minutes. Rinse thoroughly and air dry.



**HOUSEHOLD [HINT] [USE]**  
**Spring Cleaning:**  
**[For] Eliminating Bacteria that Cause Household Odors:**  
Sanitize and deodorize common household items, such as sinks, garbage cans, and refrigerators by eliminating the bacteria that cause odors.  
**Sinks:**  
Wash, wipe or rinse items with water. Apply solution of 3/4 cup of this product per gallon of water. Let stand 2 minutes before rinsing. Rinse thoroughly and air dry.  
**Garbage cans:**  
Wash garbage cans with soapy water and rinse. Swish a solution of 3/4 cup of this product per gallon of water over the inside of the can. Let the solution stand 2 minutes before rinsing.  
**Refrigerators:**  
Wash surfaces with a solution of 3/4 cup of this product per gallon of soapy water. Let stand 2 minutes. Rinse thoroughly and then air dry interior surfaces a few minutes before replacing food.

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**HOUSEHOLD USE**

**WHERE TO USE: -or- WHERE DO I USE THIS PRODUCT?**

**HOUSEHOLD USE DIRECTIONS FOR DISINFECTION**

**-OR- (TO) DISINFECT HARD, NONPOROUS SURFACES:** Preclean to remove heavy soils. Use 3/4 cup of this product in -or- per one gallon of water. Wash, wipe or rinse items with water, then apply bleach solution [with] [sponge] [mop] -or- [spray applicator]. Let stand 2 minutes. Rinse thoroughly and air dry.

**KITCHEN:** Refrigerators, sinks, appliances, plastic laminate, countertops, tile, vinyl, linoleum

**Kitchen sinks:** Cover stains with 1 gallon of water before adding 3/4 cup of this product. -or- Cover stains with 1 gallon of water; then add 3/4 cup of this product. Let stand 2 minutes before rinsing.

**BATHROOM:** Bathtubs, toilets, showers, sink, countertop, glazed porcelain, cat litter boxes, and mold/mildew removal

**Bathtubs and showers, floors, vinyl, tile, woodwork and appliances:** Flush drain, if applicable. Clean with a solution of 3/4 cup of this product per gallon of [warm] water. Let stand 2 minutes before rinsing.

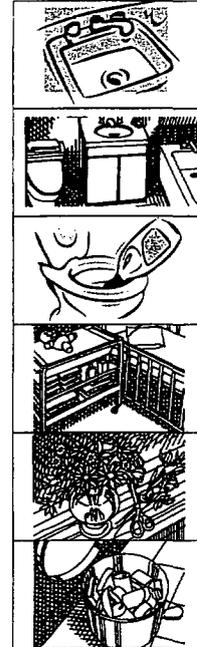
**TOILET BOWLS:** Flush toilet to remove heavy soil. Pour 1 cup of this product into bowl. Brush entire bowl including under the rim with a scrub brush or mop. Let stand 2 minutes before flushing again.

**BABY[']S NURSERY -and/or- ITEMS:** Toys, changing tables, painted cribs, high chairs, plastic mattress covers and bumpers

**OUTDOORS:** Use to remove -or- Removes mold, moss, and mildew [stains] from [outdoor] siding, tile, brick, stucco, and patios. Also use on flower pots and planters.

**HOUSEHOLD USE DIRECTIONS FOR SANITIZATION:**

**GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 3/4 cup of this product to each gallon of water. Mix. Let stand [at least] 2 minutes. Rinse and air dry.



**LAUNDRY USE**

Sort laundry [by color] and fabric. For the cleanest, whitest whites, use this product in every bleachable load. Most white fabrics and some colored fabrics can be safely washed with this product. In fact, many fabrics that have "Do not bleach" labels are bleach safe.

-or-

Sort laundry [by color] and fill washer with water. **Add 1 cup** of this product [or 1 1/2 cups for extra large washer]. -or- Use 1 1/2 cups for extra large or heavily soiled loads.\* Add detergent then laundry. -or- Add detergent with the wash water before the laundry is put in.

\*Use bleach dispenser if available.

**For HE -or- High Efficiency Washing Machines:**

Sort laundry [by color] and select wash cycle [use disinfecting/sanitizing cycle if available]. In a machine with no or small bleach dispenser (less than 1 cup) use the directions for Handwash[, Disinfect] or Pretreat Stains to disinfect/sanitize laundry. In machines with 1 cup or larger bleach dispensers, add clothes, detergent, 1 cup of this product, and start wash.

-or- Use up to 1 1/2 cups for extra large or heavily soiled loads.

If unsure about colorfastness of garment or if garment says, "No bleach" or "Only non-chlorine bleach": Mix solution of 1 tablespoon of this product with 1/4 cup water. Apply a drop of solution to a hidden part of garment. (Be sure to check all colors.) Wait one minute and blot dry.

-or-

If uncertain about colorfast dye, test fabric by applying one drop of a solution made of 1 tablespoon of this product plus 1/4 cup water to hidden part of seam. Be sure to check all colors. After 1 minute, blot dry.

No color change means [the] article can be safely bleached. **[Always] avoid bleaching spandex, wool, [mohair], silk, and non-colorfast colors.**

**For Best Laundry Results:**

- Dilute 1 cup of this product in 1 quart of cool water.
- Add to wash 5 minutes after wash cycle has begun.
- For heavily soiled loads, use 1 1/2 cups of this product.

**For HE -or- High Efficiency Washing Machines:**

- Add 1 cup of this product to wash 5 minutes after wash cycle has begun.
  - For extra large or heavily soiled loads, add up to 1 1/2 cups of this product.
- Add** this product to dispenser, if available. If not, add bleach and detergent with the wash water before the laundry is put in. *Or for best results,* dilute bleach with a quart of water and add to wash 5 minutes after the wash cycle has begun.

**To Handwash [, Disinfect] or Pretreat Stains:**

- Mix 1/4 cup of this product with one gallon cold water.
- Soak garment for 5 minutes.
- Rinse, then wash as usual.



1. Sort laundry by color.



2. Add 1 cup of this product and detergent to wash water, or 1 1/2 cups of this product for extra large washer -or- heavily soiled loads.



3. Add laundry.

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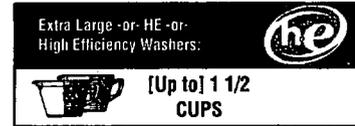
**To Disinfect and Sanitize Laundry:**

Add 1 cup of this product. Use [up to] 1 1/2 cups for extra large or heavily soiled loads. Use a detergent. This product used according to directions is effective against *Staphylococcus aureus* (Staph), *Pseudomonas aeruginosa* (*Pseudomonas*), Influenza A2, Rhinovirus Type 37, *Trichophyton mentagrophytes* (Athlete's Foot Fungus), Rotavirus WA, Hepatitis A virus, *Klebsiella pneumoniae*.

**Do not use full strength to pretreat.**

**To handwash, [disinfect] or pretreat stains** [and heavy soils], rinse to remove loose soil and fully soak garment for 5 minutes in a solution of 1/4 cup of this product to 1 gallon of cool -or- cold water. Rinse, then wash as usual.

(Compatible for High Efficiency or HE washing machines)



Kills *Staphylococcus aureus* (Staph), *Streptococcus pyogenes* (Strep), *Salmonella choleraesuis* (Salmonella), *Pseudomonas aeruginosa* (*Pseudomonas*), Influenza A2, Adenovirus Type 2, Rhinovirus Type 37 and Influenza A2 (viruses that cause the cold and flu), *Trichophyton mentagrophytes* (Athlete's Foot Fungus), *Aspergillus niger* (mildew), Rotavirus WA, Hepatitis A virus, Cytomegalovirus, Respiratory syncytial virus, Varicella zoster virus, Herpes simplex Type 2 (Herpes), Canine parvovirus<sup>†</sup>, Feline parvovirus<sup>†</sup>, Rubella virus (German measles virus), *Escherichia coli* O157:H7 (*E. coli*), *Legionella pneumophila* (*Legionella*, the bacteria that causes Legionnaire's disease), *Mycobacterium bovis*<sup>††</sup> (Tuberculosis), and *Shigella dysenteriae*.

<sup>††</sup> 1 3/4 cups/gal 5 minutes contact time

~~† For Canine parvovirus and Feline parvovirus use the same instructions as above with 10 minutes contact time~~

**Disinfects: -or- Effective disinfectant and deodorizer for: -or- Excellent for controlling mold and mildew on: -or- Excellent for: -or- [For] use on: -or- Effective on:**

Hard, Nonporous Surfaces Such As: ◆ Recycling Bins ◆ Garbage Cans ◆ Garbage Disposals ◆ Trash Cans ◆ Waste Baskets ◆ Trash Compactors ◆ Diaper Pails ◆ Diaper Changing Tables ◆ Many Hard, Nonporous Crib -or- Bed Frame Surfaces ◆ Clothes Hampers ◆ Toilets ◆ Toilet Seats ◆ Floor Around Toilets ◆ Toilet Areas ◆ Playpens ◆ Strollers ◆ Hard, Nonporous Toys ◆ [Under] Sinks ◆ Drain Boards ◆ Pet Areas [Cat Litter Boxes] ◆ Faucets ◆ Doorknobs ◆ Telephones ◆ Bathtubs ◆ Showers ◆ Plastic Shower Curtains ◆ Walls ◆ Glazed Tiles ◆ [Shower] Doors ◆ Floors ◆ Medicine Cabinets ◆ Counter Tops ◆ Stove Tops ◆ Cabinets ◆ Outside of Refrigerators ◆ Outside of Appliances ◆ Outside of Microwaves ◆ Stereo Consoles ◆ [Outside of] Washers/Dryers ◆ Laundry Rooms ◆ Basements ◆ Closets ◆ Lamps ◆ Desks ◆ Work Benches ◆ Filing Cabinets ◆ Patio Furniture ◆ Light Switch Panels ◆ Damp Storage Areas ◆ [Children's] Furniture ◆ [High] Chairs ◆ Bathroom -or- Locker Room Facilities ◆ [Toilet] [Faucet] [Telephone] [Dishwasher] [Cabinet] [Door] Handles ◆ Dressing Carts ◆ Storage Areas ◆ Kennels

**For use on hard, nonporous surfaces in: -or- Great for use in: -or- For use in: -or- Effective disinfectant and deodorizer in: -or- Excellent for controlling mold and mildew in: -or- Excellent in:**

Homes ◆ Bathrooms ◆ Restrooms ◆ Kitchens ◆ Garages ◆ Basements ◆ Hotels ◆ Motels ◆ Institutions ◆ Public Facilities ◆ Offices ◆ Public Telephone[s] [Booths] ◆ [Institutional] Laundromats ◆ Churches ◆ Military Installations ◆ Schools ◆ Day Care Centers ◆ Nurseries ◆ Dorms ◆ Shelters ◆ Laboratories ◆ Pharmacies ◆ Health Clubs ◆ Gymnasiums ◆ Recreational Centers ◆ Recreational Facilities ◆ Cafeterias ◆ Restaurants ◆ Institutional Kitchens ◆ Supermarkets ◆ Grocery Stores ◆ Butcher Shops ◆ Food Processing Plants ◆ Warehouse Clubs ◆ Automobiles ◆ Cars ◆ School Buses ◆ Boats ◆ Campers ◆ Mobile Homes ◆ Ambulances ◆ Bowling Alleys ◆ Playgrounds ◆ Vacation Homes ◆ Germ-prone Surfaces ◆ Play Areas

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## How to Sanitize and Disinfect with This Product

This product is an effective multi-purpose sanitizer/disinfectant that kills bacteria that may cause food poisoning. One tablespoon of this product in a gallon of water is equivalent to 200 ppm available chlorine. One

tablespoon of this product in a gallon of water meets U.S. Public Health Service recommended levels of hard surface sanitation.

**To Sanitize**

**Pots & Pans • Glasses, Dishes, Utensils**

DIP 1 MINUTE

WASH      RINSE      1/2 CUP THIS PRODUCT      5 GAL WATER 75°      DRAIN DRY

---

**Food Contact Surfaces**

1 1/2 OZ THIS PRODUCT      3 GAL WATER 75°      1 MINUTE

CLEAN AND RINSE      WIPE WITH SANITIZING SOLUTION      ALLOW TO DRY

---

**Food Equipment**

1 1/2 OZ THIS PRODUCT      3 GAL WATER 75°      1 MINUTE

CLEAN AND RINSE      WIPE WITH SANITIZING SOLUTION      AIR DRY

---

**Refrigerators & Freezers**

1 1/2 OZ THIS PRODUCT      3 GAL WATER 75°      1 MINUTE

WASH      WIPE WITH SANITIZING SOLUTION      DRY      AIR DRY

---

**Mops, Brushes, Rags**

5 GAL SINK      1 1/2 CUPS THIS PRODUCT      2 GAL WATER 75°      2 MINUTES      AIR DRY

WASH/RINSE      SOAK      RINSE

**To Disinfect**

**Floors & Walls**

2 1/4 CUPS THIS PRODUCT      3 GAL WARM WATER      2 MINUTES

PRE-WASH SURFACE TO BE TREATED      MOP FOR 2 MINUTES      RINSE & LET DRY

---

**Toilets**

1 CUP THIS PRODUCT      10 MINUTES

FLUSH      BRUSH      FLUSH

SOAK 10 MINUTES

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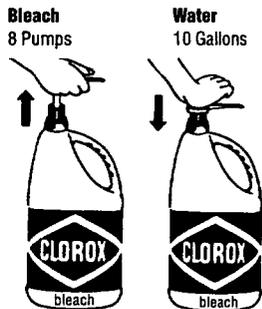
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## How to Sanitize and Disinfect with This Product

1 pump = 16 mL (0.54 oz)

APPLICATIONS	AMOUNT	INSTRUCTIONS
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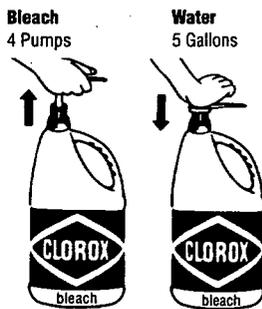
### Sanitizing in the Sink



Lift up pump. Push down to dispense.

- Add 8 pumps of this product to 10 gallons of 65-75° F (room temperature) water in the sanitizing sink compartment
- Check chlorine concentration with standard test strip  
**Concentration should not exceed 200 ppm of available chlorine**
- Wash and rinse
- Soak pots/pans/serving trays/utensils and food equipment for at least 1 minute in solution of this product
- Drain & air dry

### Wipe Cloths



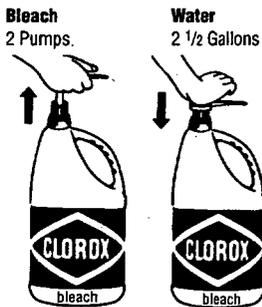
Lift up pump. Push down to dispense.

- Wash wipe cloths prior to sanitizing in a solution of this product for at least 5 minutes
- **Store wipe cloths in bleach solution when not in use**
- Fill 5 gallon dispenser with 65-75° F (room temperature) water
- Add 4 pumps of this product
- Draw solution of this product from dispenser as needed into well bowls, pans or spray bottles
- Check concentration frequently with standard chlorine test strip  
**Concentration should not exceed 200 ppm of available chlorine**

### Food Contact Surfaces

(Beverage centers/prep-boards, holding wells/service counters & tables/refrigerators/freezers)

### Stationary Equipment or other Food Contact Surfaces

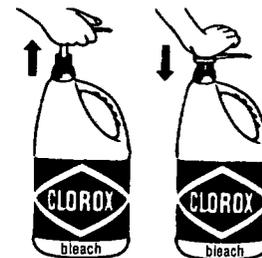


Lift up pump. Push down to dispense.

- Add 2 pumps of this product to 2 1/2 gallon bucket of 65-75° F (room temperature) water
- Check concentration frequently with chlorine test strip  
**Concentration should not exceed 200 ppm of available chlorine**
- Wash, rinse and wipe surface with bleach solution
- Wet all drink surfaces for [at least] 1 minute
- Drain & air dry
- NOTE: During food preparation periods, wipe food contact surfaces frequently with sanitized wipe cloths. **Store cloths in bleach solution when not in use.**

**Fresh sanitizing solution should be prepared daily or more often if the solution becomes diluted or soiled.**

### Toilets and Urinals Disinfection



Lift up pump. Push down to dispense.

#### Toilet

- Flush toilet to remove heavy soil
- Add 12 pumps of this product to toilet bowl
- Brush to thoroughly wet all surfaces, including under the rim
- Let stand for 2 minutes, then flush

#### Urinal

- Flush urinal to remove heavy soil
- Add 24 pumps of this product
- Brush thoroughly for 1 minute
- Let stand for 2 minutes, then flush

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## SERVICE BULLETIN

### CLOROX® (5.25% Sodium hypochlorite, EPA Reg. No. 5813-1) CANDIDA ALBICANS EFFICACY

#### Directions for use:

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces, [first] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a solution of 3/4 cup (6 oz) of this product per gallon water (~2400 ppm available chlorine). Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 2 minutes. Rinse with clean water and dry.

**TO SANITIZE DIAPER PAILS:** Preclean diaper pails with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 3/4 cup of this product to each gallon of water. Mix. Let stand [at least] 2 minutes. Rinse and air dry.

#### Use Sites

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

### CLOROX® (5.25% Sodium hypochlorite, EPA Reg. No. 5813-1) BACTERICIDAL EFFICACY

This product, when used as directed below, is effective against the following bacteria:

#### **Gram positive bacteria:**

*Staphylococcus aureus*

*Streptococcus pyogenes*

*Methicillin resistant Staphylococcus aureus*

#### **Gram negative bacteria:**

*Salmonella choleraesuis* — *enterica*

*Pseudomonas aeruginosa*

*Escherichia coli* serotype O157:H7

*Legionella pneumophila*

#### Directions for use:

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces, [first] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a solution of 3/4 cup (6 oz) of this product per gallon of water (2400 ppm available chlorine). -or- [Prepare a dilution of 1 part this product to 9 parts water (13 oz/gallon) (~5000 ppm available chlorine).] Thoroughly wet surface with the solution and allow it to remain on the surface for 2 minutes. Rinse with clean water and dry.

**TO SANITIZE GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 3/4 cup of this product to each gallon of water. Mix. Let stand [at least] 2 minutes. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add 1 cup of this product to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 2 minutes before flushing again.

#### Use Sites

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

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### CLOROX® (5.25% Sodium hypochlorite, EPA Reg. No. 5813-1) TUBERCULOCIDAL EFFICACY

This product, when used as directed below, is effective against *Mycobacterium bovis*.

#### Directions for use:

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces: [First] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a dilution of 1 part this product to 9 parts water (13 oz/gallon) (~5000 ppm available chlorine). Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 minutes. Rinse with clean water and dry.

#### Use Sites

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

### CLOROX® (5.25% Sodium hypochlorite, EPA Reg. No. 5813-1) VIRUCIDAL‡ EFFICACY

‡This product, when used as directed below, is effective against the following viruses on hard, nonporous, inanimate surfaces:

<i>Adenovirus Type 2</i>	<i>Feline parvovirus**</i>
<i>Avian Influenza virus Type A</i>	<i>Rotavirus WA</i>
<i>Hepatitis A virus</i>	<i>Cytomegalovirus</i>
<i>Human Immunodeficiency Virus Type 1 (HIV-1)‡</i>	<i>Influenza A2</i>
<i>Respiratory syncytial virus</i>	<i>Varicella zoster virus</i>
<i>Herpes simplex virus 2</i>	<i>Rhinovirus Type 37</i>
<i>Rubella virus</i>	<i>Canine parvovirus**</i>

#### Directions for use:

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces, [first] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a solution of 3/4 cup (6 oz) of this product per gallon water (~2400 ppm available chlorine). -or- Prepare a dilution of 1 part this product to 9 parts water (13 oz/gallon) (~5000 ppm available chlorine). Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 minutes. Rinse with clean water and dry.

‡See directions in the Clorox® Service Bulletin entitled "Special Instructions for Using CLOROX® to Clean and Decontaminate Against HIV on Surfaces/Objects Soiled with Blood/Body Fluids"

\*\*For Canine and Feline parvovirus use the same instructions as above but keep the solution in contact with the surface for 10 minutes.

**TO SANITIZE GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 3/4 cup of this product to each gallon of water. Mix. Let stand [at least] 1 minute. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add 1 cup of this product to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 2 minutes before flushing again.

#### Use Sites

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

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## CLOROX® (EPA Reg. No. 5813-1) FUNGICIDAL\*\* EFFICACY

This product, when used as directed below, is effective against mold, Athlete's Foot Fungus\*\* (Trichophyton mentagrophytes), and Mildew\*\* (Aspergillus niger).

### Directions for use:

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces, [first] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a solution of  $\frac{3}{4}$  cup of this product per gallon of water (2400 ppm available chlorine). Thoroughly wet surface with the solution and allow it to remain on the surface for 2 minutes. Rinse with clean water and dry.

**TO SANITIZE GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in  $\frac{3}{4}$  cup of this product to each gallon of water. Mix. Let stand [at least] 2 minutes. Rinse and air dry.

### Use Sites

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, shower stalls, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

## CLOROX® (EPA Reg. No. 5813-1) Special Instructions for Using This Product to Clean and Decontaminate Against HIV on Surfaces/Objects Soiled with Blood/Body Fluids

This product kills HIV-1 on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) 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:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

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

**Contact time:** Dilute the product to 1:20 ( $\frac{3}{4}$  cup to a gallon) and spray or flood surface; let stand 2 minutes.

**Disposal of infectious materials:** Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

## CLOROX® (EPA Reg. No. 5813-1) EMERGENCY DISINFECTION AFTER MAIN BREAKS

MAINS

Before assembly of the repaired section, flush out mud and soil. Permit 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.

## CLOROX® (EPA Reg. No. 5813-1) DISINFECTION OF DRINKING WATER (POTABLE) (Emergency/Public/Individual Systems)

### Emergency Disinfection [after [hurricanes] [tornados] [earthquakes] [tsunamis]:]

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 8 drops ~~or 1~~ <sup>2</sup> teaspoon of this product to 1 gallon of water ~~or 1/2 cupful per 10 gallons of water~~ [(2 drops to 1 quart)]. 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 several times.

For cloudy water, use 16 drops <sup>2 1/2 teaspoons or 1 cupful</sup> ~~or 1/4 teaspoon~~ of this product per gallon of water ~~or 1/2 cupful per 5 gallons of water~~ [(4 drops to 1 quart)]. If no chlorine odor is apparent after 30 minutes, repeat dosage and wait an additional 15 minutes.

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### Public System

Mix a ratio of this product to water to produce a 10 ppm available chlorine by weight. 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

1. **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. 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 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

1. **Drilled, Driven and Bored Wells:** Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. 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 pump cylinder with the sanitizer. Drop pipeline into 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 into the well. Mix well [(2 drops to 1 quart)]. Consult your local Health Department for further details.

2. **Flowing Artesian Wells:** Artesian wells generally do not require disinfection. If analysis indicates persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

## CLOROX® (EPA Reg. No. 5813-1) EMERGENCY DISINFECTION AFTER DROUGHTS

### A. 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.

### B. WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC.

Thoroughly clean all containers and equipment. Spray a 50 ppm available chlorine solution and rinse with potable water after 5 minutes. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.22 ppm chlorine residual. Use a chlorine test kit.

## CLOROX® (EPA Reg. No. 5813-1) EMERGENCY DISINFECTION AFTER FIRES

### CROSS CONNECTIONS OR 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.

## CLOROX® (EPA Reg. No. 5813-1) EMERGENCY DISINFECTION AFTER FLOODS

### WELLS

Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. 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.

## CLOROX® (EPA Reg. No. 5813-1) ASPHALT OR WOOD ROOFS AND SIDINGS

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water. Apply a 5000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 minutes, rinse by hosing with clean water.

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## CLOROX® (EPA Reg. No. 5813-1) SPAS HOT TUBS, IMMERSION TANKS, ETC.

### A. SPAS/HOT TUBS

Using a dilution chart or formula, calculate and approximate an amount 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, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

1. *Maintaining the Water:* To maintain the water, apply the product solution over the surface to maintain a chlorine concentration of 5 ppm.
2. *After Each Use:* Shock treat to control odor and algae, using the product at a rate of 16 ounces to 500 gallons of water.
3. *Periods of Disuse:* During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.
4. *Re-entry:* Re-entry into treated spas is prohibited above levels of 5 ppm due to risk of bodily harm.

### B. HUBBARD TANKS

Before patient use, add product 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 ounces of product 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 approved for use in the State of California)

### C. IMMERSION TANKS

Before patient use, add product 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 ounces of product 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 approved for use in the State of California)

D. HYDROTHERAPY TANKS. Add product to the 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.

## CLOROX® (EPA Reg. No. 5813-1) FOR SWIMMING POOL DISINFECTION

This product is a 5.25% sodium hypochlorite solution, containing approximately 5% available chlorine by weight. The purity of its ingredients and the carefully supervised process of its manufacture make this product a very stable, uniform source of chlorine for water treatment in swimming and wading pools. This product is especially suitable for use in chlorinators as it is a liquid and has no insoluble particles. This product is widely used as a source of chlorine for swimming pool sanitation and does not have any adverse effects on materials used in pool construction including swimming pool liners.

For each new filling of your pool, use following initial dosages of this product.

Swimming Pool Size in Gallons	Initial Dosage of This Product	Swimming Pool Size in Gallons	Initial Dosage of This Product
5,000	3 cups	20,000	13 cups
6,000	4 cups	25,000	17 cups
8,000	5 cups	30,000	20 cups
10,000	6 cups	35,000	23 cups
15,000	10 cups		

NOTE: 2 cups = 1 pint; 4 cups = 1 quart; 16 cups = 1 gallon

To determine the volume of water in the pool when filled, figure 7 1/2 gallons of water for each cubic foot of pool capacity. One quart of this product per 6,000 gallons of water will supply approximately 2 ppm (parts per million) available chlorine, but this may dissipate rather rapidly in new water depending on the general sanitation conditions of the pool. Repeat dosage as needed to obtain 0.6 to 1.0 ppm available chlorine.

In chlorinating a swimming pool, mix the required amount of this product with 10 parts water and feed this solution through a chlorinator into the main water supply line to the pool. The feeding rate should be adjusted so the required quantity of this product will be added uniformly throughout the filling of the pool; or, if the water is circulated through a filter, the bleach should be added throughout one complete circulation. If this product cannot be fed into the main water supply line, mix 1/2 pint of this product with 5 gallons of water and scatter over a portion of the pool surface; repeat until

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the required amount of this product has been scattered over entire surface of the pool.

Check chlorine level in pool water at least daily with a pool testing set and add this product as needed to maintain 0.6 to 1.0 ppm available chlorine. One pint of this product per 6,000 gallons of water will supply approximately 1.0 ppm available chlorine. Frequency of application of this dosage will vary depending on number of people using the pool, weather conditions (sunlight exposure), and general cleanliness of the pool area. Chlorine level for acid-stabilized pools should be maintained at 1.0 - 1.5 ppm available chlorine.

The effectiveness of the chlorine is best when the pool water has a pH range of 7.2 to 7.6. The pH of the pool water should be checked daily using a pool pH testing set and adjusted as necessary.

The regular use of this product, in the above proportions, in the swimming pool usually prevents the growth of algae in the water; however, if algae growth is causing the pool water to look cloudy and uninviting, it may be corrected by doubling the initial dosage of this product for a few treatments (2 quarts instead of 1 quart per 6,000 gallons of new water). This additional solution should be added to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 1/2 gallon of this product to 5 gallons of water applying solution with a fiber brush. The pool should be scrubbed while full and rinsed off when algae growth has been removed; all of the growth and dirty solution should be flushed from the pool with clear water before the pool is refilled. Avoid skin contact with undiluted product; if such contact occurs, rinse immediately with plenty of water for 15-20 minutes. When added as recommended, this product has no deleterious effect on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

Re-entry into treated pools is prohibited above levels of 4 ppm due to risk of bodily harm.

**CLOROX® (EPA Reg. No. 5813-1) FOR WADING POOL DISINFECTION**

This product - a 5.25% sodium hypochlorite solution containing approximately 5% available chlorine by weight - is a very stable, uniform and convenient source of chlorine for water treatment in swimming and wading pools. Also, because this product is a liquid with no soluble particles, it is especially suitable for this use.

In chlorinating wading pools, use 1/8 cup per 100 gallons of new water. Mix required amount of this product with 2 gallons of water and scatter over surface of pool. Mix uniformly with pool water.

Between fillings of pool, add 1 tablespoon of this product per 100 gallons of water each day. Empty small pools daily. (This product will not harm plastic pools.)

The chart below is a guide to the amount of this product required to provide approximately 1/8 cup per 100 gallons of water figured on basis of water depths in pools of various diameters.

Depth of Water	Pool Diameter				
	4 Ft	6 Ft	8 Ft	10 Ft	15 Ft
6 inches	1/16 cup	1/8 cup	1/4 cup	3/8 cup	3/4 cup
1 foot	1/8 cup	1/4 cup	1/2 cup	3/4 cup	1 5/8 cups
2 feet	1/4 cup	1/2 cup	1 cup	1 1/2 cups	3 1/4 cups
3 feet	3/8 cup	3/4 cup	1 1/2 cups	2 1/4 cups	5 cups

**TABLE OF LIQUID MEASURES:**

3 teaspoons	=	1 tablespoon	=	1/2 ounce	=	1/16 cup
1 cup	=	16 tablespoons	=	8 ounces	=	1/2 pint

**CLOROX® (EPA Reg. No. 5813-1) SANITATION IN CARE OF LIVESTOCK, HORSES, PETS**

**TO CLEAN AND DISINFECT BARN, STABLES, HUTCHES, KENNELS:** Remove all animals and feed from premises and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Mix 1 oz [powdered] detergent and 6 oz of this product with each gallon hot\* or cold water until detergent is dissolved. Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. Let stand for [at least] 10 minutes. Rinse with clean, clear, cold water. Let area dry thoroughly before housing animals.

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**LOADING AND HAULING EQUIPMENT:** Loading chutes, trucks, trailers and other equipment for transportation of animals should be cleaned and disinfected prior to use. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floor, walls, and other surfaces, facilities, and fixtures occupied or traversed by animals. Pressure-spray or scrub with solution prepared by thoroughly mixing 1 oz [powdered] detergent and 3 oz of this product to each gallon hot\* or cold water. Let stand for [at least] 10 minutes. Rinse with clean, clear, cold water. Allow to dry before use.

**FEEDERS AND DRINKING WATER CONTAINERS - to clean and disinfect:** Thoroughly scrub or pressure-spray with solution of 1 oz [powdered] detergent and 6 oz of this product to each gallon of hot\* or cold water. Let stand for [at least] 2 minutes. Rinse thoroughly with clear, **cold** water; allow to drain dry. (A solution of 1 oz of this product to each quart of water is effective in removing slime which sometimes forms on drinking water containers.)

**TO SANITIZE ANIMALS' DRINKING WATER:** Prepare a 5 ppm available chlorine solution using clear water. Use in glass, plastic, porcelain or concrete containers daily. (See directions below.)

\*For this product/detergent solution, use hot water if available.

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. Chlorine test strips should be used to adjust to the desired available chlorine levels.

#### MEASUREMENT TABLE: PPM (Parts per Million) Available Chlorine

6 oz this product	-to- One Gallon Water	= 2400 ppm
<del>1/2 oz (1 tablespoon) this product</del>	<del>-to- One Gallon Water</del>	<del>= 200 ppm</del>
1 teaspoon this product	-to- Ten Gallons Water	= 5 ppm
<del>1 drop this product</del>	<del>-to- One Gallon Water</del>	<del>= 2/3 ppm</del>

#### CLOROX® (EPA Reg. No. 5813-1) SANITATION IN CARE OF SWINE

##### HOG HOUSES AND FARROWING HOUSES - to clean and sanitize:

- (1) Remove all animals and feed from premises and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
- (2) Mix 1 oz [powdered] detergent and 6 oz of this product with each gallon of hot\* or cold water until detergent is dissolved. Let stand for [at least] 10 minutes.
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

**CLEAN AND DISINFECT METAL WATERING TROUGHS AND FEEDERS** by pressure-spraying or scrubbing with solution prepared by thoroughly mixing 1 oz [powdered] detergent and 6 oz of this product with each gallon of hot\* or cold water. Let stand for [at least] 2 minutes. Rinse thoroughly with clear, cold water; drain dry. (Drinking troughs and feeders should be cleaned and disinfected before housing pigs, and as often as necessary to keep sanitary.)

**TO SANITIZE DRINKING WATER:** Prepare a 5 ppm available chlorine solution using clear water. (See directions below) (Water containing suspended material is difficult to sanitize.)

NOTE: Clean metal surfaces can be sanitized using the above method. Wooden surfaces are difficult to sanitize by any method.

\*For this product/detergent solution, use hot water if available.

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. Chlorine test strips should be used to adjust to the desired available chlorine levels.

#### MEASUREMENT TABLE: (Parts Per Million) Available Chlorine

6 oz this product	-to- One Gallon Water	= 2400 ppm
1/2 oz (1 tablespoon) this product	-to- One Gallon Water	= 200 ppm
1 teaspoon this product	-to- Ten Gallons Water	= 5 ppm
1 drop this product	-to- One Gallon Water	= 2/3 ppm

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**CLOROX® (EPA Reg. No. 5813-1) FOR SANITIZING AND DISINFECTING HOUSEHOLD LAUNDRY**

To sanitize laundry, add enough of this product to reach 140 ppm (parts per million) available chlorine. To disinfect laundry, add enough of this product to reach 140 ppm (parts per million) available chlorine. Use 1 cup of bleach per standard washer, 1½ cups for extra large washers or heavily soiled loads and use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* (Staph), Influenza A2, Rhinovirus Type 37, *Trichophyton mentagrophytes* (Athlete's Foot Fungus), Rotavirus WA, Hepatitis A virus, *Klebsiella pneumoniae*

**CLOROX® (EPA Reg. No. 5813-1) FOR SANITIZING AND DISINFECTING HOSPITAL LAUNDRY**

To sanitize laundry, add enough of this product to reach 140 ppm (parts per million) available chlorine. To disinfect laundry, add enough of this product to reach 140 ppm (parts per million) available chlorine. -or- Use 1 cup of bleach per standard washer, 1½ cups for extra large washers or heavily soiled loads and use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* (Staph), *Pseudomonas aeruginosa* (*Pseudomonas*), Influenza A2, Rhinovirus Type 37, *Trichophyton mentagrophytes* (Athlete's Foot Fungus), Rotavirus WA, Hepatitis A virus, *Klebsiella pneumoniae*.

**CLOROX® (EPA Reg. No. 5813-1) FOR HAND SANITIZING**

~~The hands must be washed and thoroughly rinsed before sanitizing. The hands need not be rinsed following the use of the sanitizing solution.  
 Hand sanitizing solutions are not a substitute for washing; accordingly, a sanitizing solution of this product must be used only after thorough hand washing with soaps or detergents and water.  
 The effectiveness of any approved sanitizing solution shall be equal to or greater than that of 50 ppm (parts per million) of available chlorine.  
 To make a sanitizing solution follow the table show below.  
 Prepare the solution daily.~~

**Measurement Table**  
 for 50 ppm available chlorine

<del>20 drops this product</del>	<del>-to-</del>	<del>one quart of water</del>
<del>1 tsp this product</del>	<del>-to-</del>	<del>one gallon of water</del>
<del>1 Tbsp this product</del>	<del>-to-</del>	<del>ten gallons of water</del>

**CLOROX® (EPA Reg. No. 5813-1) FOR FOOD EGG SANITATION**

To sanitize food eggs: Thoroughly clean all eggs. Completely mix 5.5 oz of this product with 10 gallons of warm water to produce a 200 ppm (parts per million) available chlorine solution. The sanitizer temperature should not exceed 130° F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before carrying or breaking. Do not [apply a potable water] rinse. The solution should not be re-used to sanitize eggs.

**Measurement Table**  
 for 200 ppm available chlorine

1 Tbsp this product	-to-	1 gallon water
5 ½ oz this product	-to-	10 gallons water
7 cups this product	-to-	100 gallons water
4 gallons this product	-to-	1000 gallons water

**CLOROX® (EPA Reg. No. 5813-1) FOR [MEAT & POULTRY PLANT] LAUNDRY USE**

This product may be used on fabric which contacts meat or poultry products directly or indirectly, provided that the fabric is thoroughly rinsed with potable water at the end of the laundering operation.

To sanitize laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. (Use 1 cup of bleach per standard washer, 1½ cups for extra large washers or heavily soiled loads). Use a detergent. For best results, dilute bleach with a quart of water and add to wash 5 minutes after the wash has begun.

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## CLOROX® (EPA Reg. No. 5813-1) FOR DISINFECTION OF FLOORS, WALLS, SHOWERS AND TOILETS

**TO DISINFECT FLOORS, WALLS AND SHOWERS:** For nonporous surfaces such as vinyl or ceramic tile, clean surfaces to remove gross filth. Thoroughly wet surfaces with mop or sponge, with a bleach solution containing  $\frac{3}{4}$  cup bleach per gallon of water. Allow solution to remain on the surface for 2 minutes. Rinse, let dry.

**TO DISINFECT TOILETS:** Flush toilet. Pour 1 cup of bleach into bowl. Brush bowl thoroughly, making sure to get under the rim. Let solution stand for 2 minutes and flush again.

## CLOROX® (EPA Reg. No. 5813-1) FOR DAIRY AND CREAMERY EQUIPMENT SANITATION

This product is effective as a chemical sanitizer of milk utensils, containers and equipment. This product dissolves milk solids and other protein material and is a quick and effective deodorizer.

An exposure period of at least 2 minutes to a solution of 2 oz of this product to 4 gallons water (200 ppm available chlorine) should be maintained when the solution temperature is 75° F. Lower solution temperatures result in slower action; for each 18° F drop in temperature, approximately twice the exposure time is needed to achieve equivalent bactericidal action with same strength of solution. [You can also compensate for lower temperatures by increasing the concentration of this product.]

It is important to clean out large deposits of milk or other organic matter before applying this product/water solution. A sharp decline in the available chlorine content of the solution following circulation through milk processing equipment is usually regarded as evidence of inadequate cleaning of the equipment and should be promptly investigated.

**RUBBER TEAT CUPS AND TUBES** - Before each milking, prepare sanitizing solution by thoroughly mixing 2 oz of this product with each 4 gallons water. This gives approximately 200 ppm available chlorine in an average 70° F solution. Sanitize teat cups with this solution for 2 minutes before transferring them from one cow to another.

**To Sanitize - SOAKING METHOD:** After each milking, wash cups and tubes by brushing thoroughly with detergent solution. Rinse cups and tubes with cold water. Prepare sanitizing solution by thoroughly mixing 2 oz of this product with each 4 gallons water in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 1 minute, holding ends of tubes; coil tubes slowly into solution between milkings; drain thoroughly and air dry before using.

To maintain sanitizing solution at proper strength, add  $\frac{1}{2}$  oz of this product daily (in hot weather, 1 oz) for each 3 gallons water; mix well. Protect solution from light. Renew solution daily. Old solution may be utilized for deodorizing and making floors and drains sanitary; for this purpose, add 1 oz of this product for each 5 gallons old solution; mix well.

**To Sanitize - RACK METHOD:** After each milking, rinse cups and tubes in cold water. Wash in detergent solution; then rinse. Prepare sanitizing solution by thoroughly mixing 1 oz of this product with each 2 gallons water; place solution in bottle above rack for 1 minute. Place tubes and cups in rack; fill with solution and let stand between milkings; drain thoroughly and air dry before using. Old solution may be utilized in deodorizing and making floors and drains sanitary.

**METAL TEAT CUPS AND TUBES** - Before each milking, prepare sanitizing solution by thoroughly mixing 2 oz of this product with each 4 gallons water. Dip teat cups into this solution before transferring them from one cow to another.

**To Sanitize:** After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in solution prepared by thoroughly mixing 2 oz of this product with each 4 gallons water for 1 minute; drain thoroughly and air dry before using. (**Metal cups should not be left in a solution of this product.**)

**TO CLEAN AND SANITIZE MILKING MACHINES AND UTENSILS:** Immediately after milking, flush equipment with clean, lukewarm water. Dismantle equipment after each milking and wash it (including all rubber parts and stanchion hoses) and all utensils with a solution prepared by thoroughly mixing 2 oz of this product to each 4 gallons of your [regular] [powdered] detergent solution. Water temperature should be 100° F to 130° F. (**DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.**) Rinse equipment and utensils thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions at bottom of page.\***

**CLEANING IN PLACE - BULK STORAGE TANKS, DAIRY PIPELINES, TRANSFER STATIONS:** Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz of this product with each 2 gallons of your [regular] [powdered] detergent solution. Hot water should be used if available, and the temperature of the solution should be maintained at 120-160° F throughout the entire circulation. (**DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.**) Circulate the sanitizing solution through the system for 10 to 15 minutes. (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. Air dry. Seal this equipment to help protect against contamination. **Immediately before use, sanitize according to directions at bottom of page.\***

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**SEPARATORS, STRAINERS, MILK CANS, PAILS, CHURNS, PASTEURIZERS - to clean and sanitize:** After using, rinse immediately with clear, cold water; then scrub or pressure-spray with solution of 1 oz of this product mixed with each 2 gallons of your [regular] [powdered] detergent solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions at bottom of page.\***

**MILK BOTTLES - To sanitize:** Clean and rinse, then immerse for 5 minutes in solution prepared by thoroughly mixing 2 oz of this product with each 4 gallons cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength of this product solution immediately before filling; drain thoroughly. Air dry. Ordinarily, 12 gallons of this strength solution will sanitize 5000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

**ICE CREAM FREEZERS - to clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz of this product with each 2 gallons of [regular] [powdered] detergent solution. Let stand 2 minutes. Rinse thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.\***

**\*BEFORE USE** - rinse with sanitizing solution prepared by thoroughly mixing 2 oz of this product with each 4 gallons of water; drain thoroughly and air dry before use.

**MEASUREMENT TABLE: PPM (Parts Per Million) Available Chlorine**

1 oz this product	- to- One Gallon Water=	400 ppm
1/2 oz (1 tablespoon) this product	- to- One Gallon Water=	200 ppm
1 drop this product	- to- One Gallon Water=	2/3 ppm

**CLOROX® (EPA Reg. No. 5813-1) DISINFECTING GUIDE**

This product is a 5.25% sodium hypochlorite solution containing approximately 5% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering and household disinfecting, this product is widely used in sanitation of poultry and livestock houses and equipment, dairies, creameries, restaurants and taverns, as well as for purification of drinking water and disinfection of water for swimming and wading pools.

**IMPORTANT: Always thoroughly mix this product with water as directed before using.**

Do not allow undiluted product to come in contact with any fabric. (If it does, rinse out immediately with clear, cold water.)

Do not apply this product with natural sponge.

Do not use this product on steel, aluminum, silver, or chipped enamel.

If used on metal, a solution of this product should be allowed to stand for **no more than 5 minutes**, and then rinsed off thoroughly with clear water; otherwise, it may slightly discolor and eventually corrode the metal.

If a metal sprayer is used to apply the solution of this product, rinse sprayer thoroughly after use with clear water, and then oil the plunger.

SEPTIC TANK OPERATION is not affected by regular home and farm use of this product.

**TABLE OF LIQUID MEASURES**

3 teaspoons	=	1 tablespoon	=	1/2 ounce	=	1/16 cup
1 cup	=	16 tablespoons	=	8 ounces	=	1/2 pint

For directions on sanitizing and disinfecting specific surfaces, write:

**THE CLOROX® COMPANY**  
 Consumer Services Department  
 Oakland, California 94612-1888

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## CLOROX® (EPA Reg. No. 5813-1) AS A FUNGICIDE FOR SEED POTATOES

This product is fungicidal to the Verticillium wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A solution of this product is applied to whole seed and freshly cut seed potato pieces during the cutting operation for planting. [Research at the Washington State University Irrigated Agriculture Research and Extension Center\* has shown that treatment with a sodium hypochlorite solution helps to prevent the spread of organisms to uninfected soil or fields via seed potato surfaces.]

### Use Instructions

Thoroughly mix a solution for spraying, in the proportion of one part of this product (5.25% sodium hypochlorite) to 9 parts of water. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to 5 psi. Thoroughly cover all cut and uncut surfaces with the solution. The treatment will be most effective on clean seed tubers, as the organic matter in soil will reduce the effectiveness of the sodium hypochlorite.

Plant within four hours of the cutting and this product treatment operation. If planting should be delayed, store the treated seed in clean, open, well-ventilated bins or truck beds. Storing cut, wet seed in large, unventilated containers will contribute to secondary breakdown from soft rot organisms.

### Safety Precautions

Do not mix full-strength product or treatment solution with any agricultural chemical, ammonia, or acid. Avoid prolonged contact of this product with skin. If full strength or diluted product is splashed in the 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.

Conduct the spraying operations either outside, in a well-ventilated building, or under a hooded exhaust system. Use non-misting nozzles to avoid breathing of mist. Wear a face mask and plastic or rubber gloves and clothing. Because sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic-coated and rinsed with clear water after use.

**CAUTION: DO NOT USE THE TREATED SEED FOR FOOD OR FEED.** Use the product treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or this product solution may become contaminated with soil and organic matter from the potato surfaces and lose its effectiveness.

\*Easton, G.D., M.E. Nagle, and D.L. Bailey, 1972. "Verticillium albo-atrum Carried by Certified Seed Potatoes into Washington and Control by Chemicals", American Potato Journal 49: 397-402.

## CLOROX® (EPA Reg. No. 5813-1) FOR MEAT & POULTRY PLANT PROCESSING WATER

Not for use with Confidential Statements of Formula A02, A08, A09, A10, A12, A15

This product may be used in processing water of meat and poultry plants at concentrations up to 5 ppm (parts per million) calculated as available chlorine. Chlorine may be present in poultry chiller water, in water for reprocessing poultry carcasses internally contaminated with feces, and in red meat carcass final wash water at concentrations between 25 and 50 ppm calculated as available chlorine. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained.

### Measurement Table

Amount of this product to make \_\_\_ ppm available chlorine

Water volume	5 ppm	25 ppm	50 ppm
1 gallon	8 drops	40 drops	1 tsp
10 gallons	1 tsp	4 tsp	3 Tbsp
100 gallons	2 oz	6 1/2 oz	13 oz
1000 gallons	13 oz	2 qt	1 gal

## CLOROX® (EPA Reg. No. 5813-1) FOR POULTRY CARE -OR- TO KILL AVIAN INFLUENZA VIRUS TYPE A

Keeping poultry healthy, productive and profitable is largely a problem of disease prevention. Remedial measures are much more difficult and often less successful than preventing the spread of disease before it infects the flock. Regular use of this product in the sanitation and disinfection of chicken houses, brooders, and other poultry equipment is an effective aid in preventing many diseases of bacterial and viral origin.

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**DRINKING WATER - To sanitize**, thoroughly mix 1/2 oz of this product with each 4 gallons clean water. Use in glass, porcelain, stoneware or concrete containers. Let stand 1 minute. Clean containers daily; rinse.

For young chicks, a solution made by thoroughly mixing 10 drops of this product with one gallon of water is satisfactory since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., a solution of 1 oz of this product to each quart water is effective in removing the slime. **Do not allow birds to drink this solution.**

**FARM PREMISE AND POULTRY HOUSE DISINFECTANT [INSTRUCTIONS]:**

**[Directions For Use:]** *Poultry houses should be cleaned and disinfected between cycles; hatcheries should be cleaned weekly or as necessary to keep sanitary. Metal surfaces can be satisfactorily disinfected. [Wooden surfaces are difficult to sanitize by any method.]*

- (1) Remove all poultry or animals and feeds from premises, trucks, vehicles, coops, crates, and enclosures.
- (2) Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry.
- (3) Empty all troughs, racks, and other feeding and watering appliances.
- (4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- (5) Saturate all surfaces for 10 minutes with a disinfecting solution prepared by mixing 1 oz. of [powdered] detergent and 6 oz. of this product with each gallon of hot or cold water.
- (6) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- (7) Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set, or dried.
- (8) Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

**METAL INCUBATORS, FEEDERS, WATER CONTAINERS, OTHER POULTRY EQUIPMENT AND UTENSILS - To clean and disinfect**, remove loose dirt and debris. Scrub or pressure-spray with solution of 1 oz [powdered] detergent and 3 oz of this product thoroughly mixed with each gallon of **hot\*** or cold water. Let stand for 2 minutes. Rinse with clear, **cold** water. Let dry.

**EGG WASHING:** Wash eggs promptly after gathering. Dissolve 1 oz of detergent in each 2 gallons of water; add 1 oz of this product to each 2 gallons of this solution; mix well. Washing solution temperature should be at least 20° F higher than that of the eggs, but not more than 130° F. Rinse well with clean or treated water at least 20° F higher than that of the eggs, but not exceeding 120° F. (Treated water can be prepared by mixing 2 1/2 oz of this product per 5 gallons of water.)

**FOR CONTINUOUS WASHERS:** Prepare washing solution as above. Add an additional 1/2 oz each of detergent and this product per 4 gallons every 30 minutes. Dump wash tank and recharge every 2 hours. **For manual method:** Soak eggs for only 1 to 2 minutes. Agitate basket. Make sure eggs are completely covered. Air dry eggs as rapidly as possible. Store in a cool (55° F) room. Maintain relative humidity of 60-80%.

**NOTE:** Keep egg-washing equipment sanitary. Frequent cleaning will aid in operation and produce more sanitary eggs. While equipment is idle, bacteria can multiply. This contamination can be reduced by thoroughly flushing all equipment immediately before use with a solution of 1 oz of this product mixed with each 2 gallons of water.

\*For this product/detergent solution, use hot water if available.

**MEASUREMENT TABLE: PPM (Parts Per Million) Available Chlorine**

1 oz this product	-to- One Gallon Water	= 400 ppm
1/2 oz (1 Tbsp) this product	-to- One Gallon Water	= 200 ppm
1 drop this product	-to- One Gallon Water	= 2/3 ppm

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## **CLOROX® (EPA Reg. No. 5813-1) IN SANITATION OF RESTAURANTS AND TAVERNS**

An unclean kitchen and contaminated food can result in the spread of infectious disease. To help avoid this, it is important to keep all work surfaces, equipment and utensils hygienically clean. This product is a highly effective, economical and convenient germicide for this use in restaurants and taverns, as well as in the home.

**TO SANITIZE WORK SURFACES** (not utensils): After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a sanitizing solution of 1 tablespoon of this product to each gallon of water. Apply solution with sponge for 1 minute. Air dry.

**DISINFECT WORK SURFACES** (not utensils): After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a disinfecting solution of  $\frac{3}{4}$  cup of this product to each gallon of water. Apply solution with sponge for 2 minutes. Rinse with potable water. Air dry.

**TO SANITIZE DISHES, GLASSWARE, UTENSILS:** Wash thoroughly; then soak 1 minute in solution of 1 tablespoon of this product to each gallon of hot water. Use chlorine test strips to adjust to 200 ppm available chlorine. Drain dry. (Do not use on steel, aluminum, silver, or chipped enamel.)

**TO DISINFECT SINKS AND SANITIZE DISH CLOTH[S]** should be a routine follow-up to dishwashing. First wash sink and rinse dishcloth[s] in hot suds. Drain out sudsy water. Then run a gallon of warm water into sink and mix in  $\frac{3}{4}$  cup of this product. Let stand 2 minutes. Swish dishcloth[s] in this solution; then use it to wipe sides of sink. Soak dishcloth[s] for 1 minute in this solution. Then rinse sink and dishcloth[s] with clear water.

**TO DEODORIZE DRAIN PIPES:** Flush with very hot water followed by 1 cup of this product. Wait 5 minutes; flush out with clear water.

**TO SANITIZE REFRIGERATORS:** First wash inside surfaces. Then wipe with solution of 1 tablespoonful of this product to each gallon of warm water. Let stand for [at least] 1 minute. Air dry. (Do not use on steel, aluminum, silver, or chipped enamel.)

**ICE CREAM FREEZERS - to clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 2 oz of this product with each 2 gallons of [regular] [powdered] detergent solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 minutes with solution prepared by mixing 2 oz of this product with each 4 gallons of water; drain thoroughly.

**TO DISINFECT HARD, NONPOROUS FLOORS** (plastic or ceramic tile): Mix  $\frac{3}{4}$  cup of this product per gallon of water. Mop or scrub. (Do not use on cork or linoleum.) Let stand 2 minutes. Rinse.

**TO SANITIZE BRUSHES, MOPS & BROOMS:** After using brushes, mops and brooms, wash thoroughly; then soak for 2 minutes in solution of  $\frac{3}{4}$  cup of this product to 1 gallon of warm water. Rinse with clear water; dry. (Not recommended for cellulose sponge mops.)

**TO SANITIZE PAILS AND DUSTPANS:** Remove heavy dirt prior to cleaning. Using sponge, wash with solution prepared by thoroughly mixing  $\frac{3}{4}$  cup of this product with each gallon water. Let stand 2 minutes. Rinse with clear, cold water. Air dry.

**TO DEODORIZE AND SANITIZE GARBAGE CANS:** Remove heavy dirt with a cleaner. Rinse. Pour in  $\frac{3}{4}$  cup of this product to each gallon of water; mix. Swab inside surfaces with this solution. Let stand 2 minutes. Rinse with clear water; dry.

## **CLOROX® (EPA Reg. No. 5813-1) FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS**

Before using this product, food products and packaging materials must be removed from the room or kept protected.

Before they are treated with a bleach solution, the food processing equipment and utensils must be thoroughly washed and then rinsed with clear, cold water.

The product solution used for sanitizing should not exceed 200 ppm (parts per million) available chlorine (one part of this product to 250 parts water, or 1 tablespoon per gallon). The bleach solution should be applied by spraying, soaking or scrubbing. Treated surfaces should remain wet for at least one minute.

A potable water rinse is not required, provided the equipment and utensils are adequately drained before they come into contact with food. Little or no residue should remain to adulterate or otherwise affect edible products.

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### **CLOROX® (EPA Reg. No. 5813-1) FRUIT & VEGETABLE WASHING**

Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 1 Tbsp. of this product in 7½ gallons -or- 1 oz of this product in 15 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.

### **CLOROX® (EPA Reg. No. 5813-1) FOR DISINFECTION USES (2400 PPM FOR 1 MINUTE) [(SPRAY APPLICATIONS)]**

This product can be diluted and spray applied for convenient broad spectrum disinfection of hard, nonporous surfaces in homes, hospitals, commercial, institutional, and eating establishments.

To ensure [sodium] hypochlorite [bleach] stability, prepare solutions daily.

To prepare a 2400 ppm solution, mix:

5 teaspoons this product	-in-	1 pint water
3 tablespoons this product	-in-	1 quart water
¾ cup this product	-in-	1 gallon water

#### **Directions for use:**

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces, [first] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Spray surface using a coarse spray with the [diluted] product solution until thoroughly wet. Allow it to remain on the surface for 1 minute. Rinse and dry.

### **CLOROX® (EPA Reg. No. 5813-1) FOR DISINFECTION USES (800 PPM FOR 2 MINUTES) [(SPRAY APPLICATIONS)]**

This product can be diluted and spray applied for convenient broad spectrum disinfection of hard, nonporous surfaces in homes, hospitals, commercial, institutional, and eating establishments.

To ensure [sodium] hypochlorite [bleach] stability, prepare solutions daily.

To prepare an 800 ppm solution, mix:

1½ teaspoons this product	-in-	1 pint water
1 tablespoon this product	-in-	1 quart water
¼ cup this product	-in-	1 gallon water

#### **Directions for use:**

Hard, Nonporous Surfaces:

To disinfect hard, nonporous surfaces, [first] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Spray surface using a coarse spray with the [diluted] product solution until thoroughly wet. Allow it to remain on the surface for 2 minutes. Rinse and dry.

### **USE CLOROX® (EPA Reg. No. 5813-1) IN SANITIZING CYCLE OF CHEMICAL SANITIZING DISHWASHING MACHINES**

This product is an approved sanitizing agent for use in the sanitizing cycle of chemical sanitizing dishwashing machines.

#### **Usage Directions**

1. Hook up a bottle of this product to the automatic bleach dispensing system of the chemical sanitizing dishwashing machine. If the bottle is already in place, make sure that sufficient product remains in the bottle to complete the dishwashing job.
2. Wash tableware in the machine following the manufacturer's operating instructions.

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3. After the washing/rinsing/sanitizing cycles are completed, remove the dishwashing rack. Let stand 2 minutes. Allow the tableware to air dry.

**Caution:** Do not sanitize silverware or pewter with this product as these metals may darken.

#### **Bleach Dispensing System Adjustments**

The following steps must be followed before using the new chemical sanitizing dishwashing machine, and on a regular basis thereafter:

- a. Start machine and let run until the machine has begun the final rinse cycle.
- b. Take a sample of the rinse water.
- c. Using a special test kit, determine the parts per million (ppm) of available chlorine in the sample.
- d. If the ppm of available chlorine is lower than the minimum or higher than the maximum level of available chlorine permitted by local public health authorities, adjust the bleach dispensing system.
- e. Repeat steps "a" through "c" until a correct ppm of available chlorine is achieved.

Your equipment service representative or dishwashing detergent supplier will often make these adjustments for you.

#### **Correct Chlorine Concentration**

Local public health codes vary with regard to the parts per million of available chlorine permitted in the final rinse water of chemical sanitizing dishwashing machines. The minimum level is 50 ppm of available chlorine with a maximum level of 200 ppm, although some states require 100 ppm minimum level. Check with your local public health department on the applicable regulations for your area.

### **CLOROX® (EPA Reg. No. 5813-1) PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS**

<b>Crop/Site/Commodity:</b>	1. Walks, benches, tools, plant containers in nurseries and other quarantine areas 2. Farm equipment and machinery 3. Laboratory work areas, equipment and specimens 4. Deciduous fruit tree nursery stock (dormant)
<b>Target Pest/Problem:</b>	Plant parasitic nematodes, plant disease-causing fungi and for general surface disinfection
<b>Dosage:</b>	See dilution rate
<b>Dilution Rate:</b>	Five parts water with one part this product (equals 0.875% active ingredient)

**Laboratory work areas, equipment and specimens:** Prepare a solution of four or five parts water to one part product. Scrub areas and implements thoroughly, then wipe or allow to dry naturally. It is advisable that workers doing the treatment wear waterproof gloves. Small tools or implements and other items covered above may be immersed for five to ten minutes in the solution instead of scrubbing manually. Wipe off plant tissue or soak tissue in the solution.

<b>Deciduous Fruit Tree Nursery Stock:</b>	Four or five parts water with one part product (equals 0.85% to 1.0% active ingredient)
<b>Method of Application:</b>	Drench and dip method.

- Deciduous Fruit Tree Nursery Stock:**
1. Thoroughly clean all soil from roots.
  2. Dip entire tree root system in solution for 30 to 45 seconds.
  3. Immediately rinse tree root system with clean water upon removal from dip solution.

<b>Frequency/Timing of Application:</b>	As needed
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<b>Deciduous Fruit Tree Nursery Stock:</b>	One application at harvest (tree-digging period)
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Field Reentry  
After Application: Not applicable  
Preharvest Interval: Not applicable  
Other Requirements: Do not apply through any type of irrigation system  
Deciduous Fruit Tree  
Nursery Stock: Workers required to wear eye protection and waterproof gloves

### KARNAL BUNT QUARANTINE TREATMENT USE DIRECTIONS

Crop/Site/Commodity: Tools, conveyances, mechanized farm equipment, seed conditioning or milling equipment, soil moving equipment, or grain elevators and structures used for storing and handling grain  
Target Pest/Problem: Karnal bunt (*Tilletia indica*)  
Dosage: See dilution rate.  
Dilution Rate: Mix 1 part this product to 2.5 parts water.  
Method of Application: Before treating remove all soil and plant debris. The dilute solution of sodium hypochlorite will be used to wet the point of runoff surfaces potentially exposed to the pathogen. Saturate any soil removed by the treatment with the solution. It is recommended that the equipment or site be thoroughly washed down with clean water after 15 minutes to minimize corrosion

#### Additional Restrictions, User Precautions and Requirements:

Be sure treated surfaces are dry before handling. Protective impervious gloves and safety goggles should be worn when mixing this disinfectant. Protective impervious gloves should be worn while handling or using the dilute mixture. Do not ingest product. Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Store away from flammable materials. Keep containers tightly closed. Wash thoroughly after handling. Use only with adequate ventilation.

### CLOROX® (EPA Reg. No. 5813-1) FOR CROP/SITE TREATMENT

Crop/Site: Asparagus Seed treatment  
Target Pest/Problem: To aid in the prevention of asparagus root rot (*Fusarium oxysporium* and *F. asparagi*)  
Dosage: 1 pint plus 8 pints of water  
Dilution or Application Rate: Use 1 gallon of solution per pound of seed  
Method of Application: Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread and air dry.  
Frequency/Timing of Applications: 1 application  
Preharvest Interval: Preplant treatment  
Other Requirements: Do not use treated seeds for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed  
Crop/Site: Pepper Seed treatment  
Target Pest/Problem: To aid in the prevention of bacterial spot (*Xanthomonas vesicatoria*)  
Dosage: 2 pints plus 8 pints of water

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Dilution or Application Rate: Use 1 gallon of solution per pound of seed  
Method of Application: Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread to air dry.  
Frequency/Timing of Application: 1 application  
Preharvest Interval: Preplant treatment  
Other Requirements: Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

Crop/Site: Tomato Seed treatment  
Target Pest/Problem: To aid in the control of Bacterial canker (*Corynebacterium michiganense*) and Tobacco mosaic virus (TMV)  
Dosage: 2 pints plus 8 pints of water  
Dilution or Application Rate: Use 1 gallon solution per pound of seed.  
Method of Application: Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread to air dry  
Frequency/Timing of Application: 1 application  
Preharvest Interval: Preplant treatment

Other Requirements: Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

### **CLOROX® (EPA Reg. No. 5813-1) FOR PORT ORFORD CEDAR ROOT DISEASE (Phytophthora lateralis) TREATMENT USE**

When used as directed, this product is effective in controlling the spread of the fatal fungus *Phytophthora lateralis* [Port Orford Cedar Root Disease] in areas of California and Oregon where Port Orford Cedar (*Chamaecyparis lawsoniana*) grows.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and for fire suppression. The water source can spread the root disease fungus to uninfested areas. Treating water prior to use helps control the spread of the fungus.

**Directions for Use:** Add 1 gallon of this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 minutes prior to application dust abatement, fire suppression and cleaning trucks, and logging, road building and maintenance equipment.

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**CLOROX® (EPA Reg. No. 5813-1) DILUTION TABLE**

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. Chlorine test strips should be used to adjust to the desired available chlorine levels.

Approximate ppm Available Chlorine	Volume of Bleach	Volume of Water
10,000	1 part	4 parts
	1 cup (8 fl oz)	1 quart
	1 quart	1 gallon
6,000	1 part	7 parts
	2 1/4 cups (18 fl oz)	1 gallon
	11 cups	5 gallons
5,000	1 part	9 parts
	3.5 Tbsp (1.75 fl oz)	1 pint
	1 3/4 cups (14 fl oz)	1 gallon
4,000	1 part	12 parts
	1/3 cup (2.7 fl oz)	1 quart
	1 1/3 cups (10.7 fl oz)	1 gallon
3,000	1 part	16 parts
	2 Tbsp (1 fl oz)	1 pint
	4 Tbsp (2 fl oz)	1 quart
	1 cup (8 fl oz)	1 gallon
2,400	1 part	21 parts
	3/4 cup (6 fl oz)	1 gallon
	3 cups (24 fl oz)	4 gallons
1,500	1 part	32 parts
	1/2 cup (4 fl oz)	1 gallon
	1 cup (8 fl oz)	2 gallons
1,200	1 part	42 parts
	3/8 cup (3 fl oz)	1 gallon
	3/4 cup (6 fl oz)	2 gallons
800	1 part	64 parts
	1 Tbsp (0.5 fl oz)	1 quart
	1/4 cup (2 fl oz)	1 gallon
	1 cup (8 fl oz)	4 gallons
400	1 part	128 parts
	1.5 tsp	1 quart
	2 Tbsp (1 fl oz)	1 gallon
	1/2 cup (4 fl oz)	4 gallons

Approximate ppm Available Chlorine	Volume of Bleach	Volume of Water
200	1 part	256 parts
	1 Tbsp (0.5 fl oz)	1 gallon
	2 Tbsp (1 fl oz)	2 gallons
	5 Tbsp (2.5 fl oz)	5 gallons
	3/4 cup (6 fl oz)	10 gallons
	7 cups (56 fl oz)	100 gallons
	4 gallons	1000 gallons
100	1 part	500 parts
	1 Tbsp (0.5 fl oz)	2 gallons
	2.5 fl oz	10 gallons
75	1 part	660 parts
	15 drops	1 pint
	1/4 cup (2 fl oz)	10 gallons
	1 1/4 cups (10 fl oz)	50 gallons
50	1 part	1,000 parts
	5 drops	1 cup
	1 Tbsp (0.5 fl oz)	4 gallons
25	1/4 cup (2 fl oz)	15 gallons
	1 part	2,000 parts
	5 drops	1 pint
10	1 tsp	2 1/2 gallons
	1/4 cup (2 fl oz)	30 gallons
	1 part	5,000 parts
	2 drops	1 pint
5	1 tsp	5 gallons
	1/4 cup (2 fl oz)	60 gallons
	1 part	10,000 parts
	1 drop	1 pint
	1 tsp	10 gallons

Table of Liquid Measures:

- 1 drop = 0.0017 oz
- 1 Tbsp = 3 tsp
- 1 ounce = 2 Tbsp
- 1 cup = 8 oz
- 1 pint = 2 cups = 16 oz
- 1 quart = 4 cups = 2 pints = 32 oz
- 1 gallon = 4 quarts = 8 pints = 16 cups = 128 oz

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**PRECAUTIONARY STATEMENTS**  
Hazards to humans and domestic animals.

**WARNING:**

Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove and wash contaminated clothing before reuse.

**FIRST AID:**

Call a poison control center or doctor immediately for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

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

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glassful 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.

Call a poison control center or doctor immediately for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **Clorox information Line: 1-800-292-2200.**

**Physical and chemical hazards:**

This product contains a 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 gases. Prolonged contact with metal may cause pitting or discoloration.

*for institutional products:*

**Environmental hazards:**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.

*Outdoor use only:*

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms.

**STORAGE AND DISPOSAL:**

*For Household Products:*

Store this product in a cool dry place. Do not reuse empty container; rinse container and put in trash collection -or- wrap in newspaper and discard in trash.

-or-

*For Institutional Products:*

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

**SATISFACTION GUARANTEED**

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach for over 80 years, and we are dedicated to ensuring your total satisfaction with our product. If you are not completely satisfied, please call the number below.

**CLOROX CUSTOMER ASSISTANCE (800) 292-2200**

Laundry/Household Cleaning Questions? The experts at Clorox are standing by to answer any of your laundry or household cleaning questions.

**Questions or Comments? -or- SUGGESTIONS?**

[Visit -or- Check (out) our website at] [www.clorox\[laundry\].com](http://www.clorox[laundry].com) [for more information] [on Clorox®] [cleaning -[and/]or-disinfecting tips] or call toll free -or- Please call 800-227-1860 -or- (800) \_\_\_\_\_

or write us at: Clorox Consumer Services, P.O. Box 24305, Oakland, CA 94623.

Clorox is a registered trademark of The Clorox Company. Bottle shape is a registered trademark of The Clorox Company.

EPA Reg. No. 5813-1  
EPA Est. No. 5813-CA-2, CA-3, FL-1, GA-1, IL-1, MD-2, TX-1.  
(Actual establishment number shown in code above or below).

Covered under one or more of the following U.S. patents: \_\_\_\_\_

**ENVIRONMENTAL COMMITMENT**



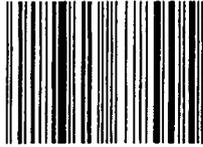
• This bottle is coded for recyclers. Check to see if recycling facilities in your area accept colored HDPE bottles. Recycle where recycling facilities available.

-or-



• This product rapidly breaks down almost entirely to salt [and] water.  
• This product is not harmful to septic and waste water treatment systems.  
• This product contains no phosphates -or- phosphorus.

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Printed in U.S.A.



EPA Est. No. 5813-1  
CA-2  
CA-3  
CA-4  
FL-1  
GA-1  
IL-1  
MD-2  
OH-1  
PR-1  
TX-1  
Batch code identifies manufacturing location.