

5813-50

3/28/2007

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



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

March 28, 2007

J. Evelyn Lawson  
The Clorox Company  
c/o PS&RC  
P.O. Box 493  
Pleasanton, CA 94566-0803

Subject: Ultra Clorox Brand Regular Bleach  
EPA Registration No. 5813-50  
Application Date: December 27, 2006  
Receipt Date: December 29, 2006

Dear Ms. Lawson:

The labeling for the product referred to above submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended to add Avian Influenza A, ATCC numbers, and High Efficiency washing instructions, is acceptable subject to the comments/conditions listed below.

**Conditions**

1. The Agency is revising its previous avian influenza A label claims policy, which restricted the claim to products that were used on poultry farms, and were packaged as concentrates. This document provides guidance for antimicrobial pesticides sold as dilutable liquids and powders, ready-to-use or spray formulations, and towelettes, which are used to treat surfaces in agricultural, commercial, industrial, institutional, and residential settings against the avian influenza A virus. This document also provides guidance to those applicants whose label claims for inactivation of the avian influenza A virus were rejected because of the container size or package form of the product. The following describes the Agency's policy for avian influenza A label claims:

**Ready-to-Use and Coarse Spray Products – Commercial, Industrial, Institutional, Agricultural and Residential Uses**

Avian influenza A label claims will be accepted for these types of products provided efficacy data has been submitted and accepted to support the label claim. It should be made clear that the use is only for surfaces which

are not conducive to treatment by immersion or excess liquid (e.g., cages, equipment tables, lab benches, faucet handles, door knobs, and similar "high touch" surfaces.) For uses in hospital/medical/health facilities, the directions for use for hospital disinfection should be followed. For all other use sites, general disinfection directions for use should be followed.

### **Label Claims.**

Featured statements/phrases emphasized/enlarged lettering, special graphics, or any product name that employs the terms "Avian influenza A" or "Bird Flu", are unacceptable. Featured statements/phrases, emphasized/enlarged lettering or special graphics that are employed for the primary purpose of especially promoting or drawing attention to product efficacy against avian influenza A, are also unacceptable. For example, a featured, incomplete phrase such as "Kills avian influenza A" will not be permitted, but the phrase "Kills avian influenza A on pre-cleaned environmental surfaces" is acceptable.

### **Dilutable Liquids and Powders - Poultry Farms and Related Agricultural Sites**

Avian influenza A label claims should have a separate section from basic disinfection claims under the heading "**Special Instructions for Inactivating Avian Influenza A.**" The following label directions are required for poultry house disinfectants to permit their classification as non-food use products.

- (a) Remove all poultry and feeds from premises, trucks, coops, and crates.
- (b) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- (c) Empty all troughs, racks, and other feeding and watering appliances.
- (d) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- (e) Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes.
- (f) Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- (g) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

2. Change "Herpes Virus [Type] 2 (Herpes) [ATCC 734] to [Strain G Herpes Virus [Type] 2 (Herpes) [ATCC-VRE 734] [Strain G].

3. All references to the heightened Antimicrobial Power claims have been removed from the label.

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**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)

4 8 31

Note: **Bold, italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text ]  
Underlined text is new. Strike-through (~~text~~) means removed.

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for front or back

**CONCENTRATED**



**KEEP OUT OF REACH OF CHILDREN  
DANGER: CORROSIVE.**

Active Ingredient:	
Sodium Hypochlorite .....	6.0%
Other Ingredients .....	94.0%
Total .....	100.0%

(Yields 5.7% available chlorine)  
Contains no phosphorus

**FIRST AID:**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **IN EITHER CASE, CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE.**

See back panel for additional precautionary labeling.

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

00126-21 1

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

03-28-07

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

5813-50

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**PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS.****DANGER: CORROSIVE.**

May cause severe irritation or damage to eyes and skin. Harmful if swallowed. Protect eyes when handling. For prolonged use, wear gloves. Wash after contact with product. Avoid breathing vapors and use only in a well ventilated area.

**FIRST AID:**

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

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

**IF SWALLOWED:** Call a poison control center or doctor 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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**PHYSICAL OR CHEMICAL HAZARDS:** *Product contains a strong oxidizer. Always flush drains before and after use. Do not use or mix with other household chemicals, such as toilet bowl cleaners, rust removers, acids or products containing ammonia. To do so will release hazardous irritating gases. Prolonged contact with metal may cause pitting or discoloration.*

***Outdoor use only:***

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

***Institutional use only:***

**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. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND DISPOSAL:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Offer empty container for recycling. If recycling is not available, discard container in trash.

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### SATISFACTION GUARANTEED

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach for over 75 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

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

Patent Des. 264,308 (for 48, 96, 174 and 180 ounce bottles only)

"Clorox" is a registered trademark of The Clorox Company.

Bottle shape is a registered trademark of the Clorox Company

Questions or Comments?

Call Toll Free (888) 797-7225 -or- (800) 227-1860 -or-

Write us at:

Clorox Consumer Services

P.O. Box 24305

Oakland, CA 94623

EPA Reg. No. 5813-50

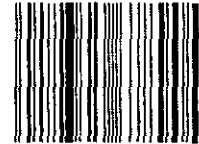
EPA Est. No. 5813-

Batch Code Identifies Manufacturing Location

Mfd. for & ©1997 The Clorox Company

Oakland, CA 94612

Made in U.S.A.




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

### ENVIRONMENTAL COMMITMENT




- This product rapidly breaks down almost entirely to salt [and] water.
- Not harmful to septic and waste water treatment systems.
- This bottle is coded for recyclers. Check to see if recycling facilities accept colored HDPE in your area. Recycle where recycling facilities are available.
- Contains no phosphorus -or- phosphates.



**CHARITY LANGUAGE/LOGO/SYMBOL — front panel**

*Dedicated to a Healthier World*  
Help Clorox raise \$XXX for the American Red Cross.  
See details on back.



**CHARITY LANGUAGE/LOGO/SYMBOL — back panel**

More than 11 million people seek health and safety skills from the American Red Cross every year. Clorox proudly supports the American Red Cross by donating \$XXX for each specially-marked unit [of this product -or- Clorox product ] sold [for one year] beginning [XXX,] 20XX, up to a maximum donation of \$XXX. For more information about how the American Red Cross and Clorox can help protect you and your family, visit [www.clorox.com/redcross](http://www.clorox.com/redcross).  
*The American Red Cross name and emblem are used with its permission, which in no way constitutes an endorsement, express or implied, of any product or company.*

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for front or back:

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

- Authentic -and/or- Classic clean
- [Best] Family size -or- pack
- [Best] Giant size -or- pack
- [Best] King size -or- pack
- [Best] Super-sized -or- pack
- [Best] Value size -or- pack
- Better smell
- Better smell[ing] [scent] [fragrance]
- Bigger value pack
- Bleaches Out Tough Stains
- Boosts Cold Water Cleaning Power
- Cleanest clean
- [Clorox® Bleach is] safe for many color-fast washables
- [Clorox®] a tradition of clean
- ~~Clorox® for a higher standard of clean~~
- [Clorox®] works hard so you don't have to
- Clorox Bleach goes Ultra
- Clorox bleach removes body soil [to get your clothes clean]
- Concentrated Formula for Unbeatable Whitening
- Contains Two 1.41 Gallon (180 oz) Bottles. Net 2.82 Gallons (360 oz)
- Deodorizer
- Deodorizes
- Detergent may leave behind [invisible] body soil [inside clothing fibers]
- DO NOT use this product full-strength for cleaning surfaces. Always dilute strictly in accordance with label directions.
- Easier to handle, pour and store [than original Clorox Bleach]
- Eliminates Odors
- [Even after 50 washloads.] Ultra 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 use in High-Efficiency washing machines
- Free disinfecting [and] [sanitizing] instruction chart [brochure] enclosed
- Free measuring cup inside with this purchase of this product
- 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!\*
- \* Gets whites even whiter than before after multiple washes
- ~~It's from Clorox®, so [you know] [you can trust it] [the clean] [it's more than clean]~~
- Just as safe on bleachable fabrics as before
- Keeps day care centers clean ←
- King size -or- pack
- Looks clean, smells clean, know it's clean
- Low odor -or- better odor
- Low -or- Better odor
- More Bleaching Power
- More concentrated [than original Clorox Bleach]
- More concentrated -or- higher concentration
- More value [than original Clorox Bleach]
- Not for [individual] resale
- Now use 3/4 cup instead of 1 cup for all your laundry and cleaning needs
- Removes [Tough] Stains
- Removes the yukky stuff detergent leaves behind
- Removes what you can see [, what you can smell,] and what you can't [see]
- Removes/Eliminates Odors
- Safe For Most Color-Fast Washables
- Smaller bottle is easier to handle, pour and store [than original Clorox Bleach]
- Smaller is better
- [Still -or- when used as directed] safe for all your bleachable wash loads
- Super Value Pack
- Super-size -or- 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
- This product gets even your dirtiest clothes white
- 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]
- Try Dry Clorox Bleach [for White Laundry]
- [Ultra Clorox Liquid Bleach.] [essential] [for] the purest clean
- [Ultra Clorox® Bleach is] safe for many color-fast washables
- [Ultra] Improved -or- Advanced Whitening [Power -or- Formula]
- Unbeatable whitening
- [Use] for a higher standard of clean ←
- Use in hospitals [on hard, nonporous surfaces]
- Value size -or- pack
- Wear gloves when cleaning for prolonged periods
- When can I use this product? 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.
- White just got whiter
- Whitens [and Removes Stains]
- Whitens bleachable fabrics
- Whitens whites

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*for front or back:*  
**SANITIZING/DISINFECTING/VIRUCIDAL CLAIMS:**

- [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]]
- Clean. Disinfect. Protect<sup>(2)</sup>. [2]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
- 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
- Cleans [and disinfects]
- Disinfect for a Clorox® [bleach] clean
- Disinfects
- Disinfects and Deodorizes by Killing [Most] Germs and Their Odors
- Disinfects day care centers
- Disinfects your baby's -or- workout clothes -or- laundry
- Eliminates germs and bacteria
- Especially recommended for Food Service Germicidal Applications
- Especially recommended for Food Service Germicidal Applications
- [Fight[s]] [Kill[s]] [Effective] [Protect[s]] [against] [Salmonella choleraesuis] -or- Salmonella enterica [ATCC 10708] -and/or- Escherichia coli O157:H7 (E.coli) [ATCC 35150] -and/or- Hepatitis [type] A [ATCC VR-2093] [strain HM-175]

- [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] [laundry]]
- Flu Fighter[s]!!
- For institutional use [only]
- Free disinfecting -and/or- sanitizing instruction chart -or- brochure enclosed
- Fungicidal/Fungicide
- Germicidal/Germicide
- 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
- Kill[s] bacteria on the surfaces your kids touch every day
- Kills [99.9% of] [household] mold [and mildew]
- Kills [household] viruses that cause colds and the flu: Rhinovirus and Influenza A2
- Kills [many] germs -and/or- bacteria
- Kills mold [dead]
- Kills [the] cold -and/or- flu virus[es]
- Kills [the] germs around your home -or- house
- Kills 99.9% of household mold [and mildew]
- Kills 99.9% of mold [and mildew]
- Kills E. coli [where it lurks]
- Kills household mold [and mildew]

- Kills Many Bacteria
- Kills many bacteria, viruses † and mold
- Kills Many Germs
- Kills mold [and mildew]
- Kills most mold
- Kills surface germs and bacteria [including Staphylococcus aureus (Staph) [ATCC 6538], [Salmonella choleraesuis] -or- Salmonella enterica [ATCC 10708] and [the] Influenza A2 [virus] [ATCC VR-544]]
- [Only by] using [detergent and] Clorox bleach [in every load] can you remove what you can see [(e.g. stains)], what you can smell [(e.g. odors)] and what you can't see [(e.g. body soil, oils, odor-causing bacteria)]
- [Only by] using [detergent and] Clorox bleach [in every load] can you remove what you can see [(e.g. stains)], what you can smell [(e.g. odors)] and what you can't see
- Powerful germ killer
- [Removing] [Killing] [Trusted to kill] [Fighting] [Eliminating] germs -and/or- bacteria -and/or- viruses [since 1913] [for nearly 100 years]
- Remove[s] bacteria from your children's toys
- Remove [bacteria] [germs] [viruses] -and/or- [body soil] detergent leaves behind
- Removes mold [and mildew]
- Sanitizer
- Sanitizes
- The smart way to disinfect
- Tuberculocidal/Tuberculocide
- Virucidal/Virucide

Also kills Adenovirus Type 2, Avian Influenza [virus] Type A [ATCC VR-2072], Hepatitis [type] A [ATCC VR-2093] [strain HM-175], Cytomegalovirus [ATCC VR-578] [Strain AD-169], Respiratory Syncytial Virus [ATCC VR-26] [Strain Long], Varicella zoster Virus [ATCC VR-586], Herpes (Simplex) Type 2 (Herpes) [ATCC VR-734], Canine parvovirus [ATCC 953], Feline Parvovirus [ATCC 648], Rubella virus (German measles virus) [ATCC VR-315], Mycobacterium bovis [ATCC 35743] (Tuberculosis) and Shigella dysenteriae [ATCC 13313].

† 10 minute contact time  
 †† 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) [ATCC 6538], Streptococcus pyogenes (Strep) [ATCC 9342], [Salmonella choleraesuis] -or- Salmonella enterica (Salmonella) [ATCC 10708], Pseudomonas aeruginosa (Pseudomonas) [ATCC 15442], Influenza A2 (Hong Kong) [VR-544], Rhinovirus Type 37 [ATCC VR-1147] (virus that causes cold and flu), Trichophyton mentagrophytes (Athlete's Foot Fungus) [ATCC 9533], Rotavirus [Strain WA] [ATCC VR-2018], Escherichia coli O157:H7 (E. coli) [ATCC 35150] and Aspergillus niger [ATCC 6275].

*for front*  
 • Kills [99.9%] of [common household] bacteria.\*

*for back*  
 • Kills [99.9%] of [common household] bacteria: Staphylococcus aureus (Staph) [ATCC 6538], Streptococcus pyogenes (Strep) [ATCC 9342], [Salmonella choleraesuis] -or- Salmonella enterica (Salmonella) [ATCC 10708], Pseudomonas aeruginosa (Pseudomonas) [ATCC 15442], and Escherichia coli O157:H7 (E. coli) [ATCC 35150].

*for front*  
 • Kills [99.9%] of [common household] germs\*  
 \* Salmonella, E. coli, Staph, and Strep\*\*

*for side or back pane!*  
 \*\* [Salmonella choleraesuis] -or- Salmonella enterica (Salmonella) [ATCC 10708], Escherichia coli O157:H7 (E. coli) [ATCC 35150], Staphylococcus aureus (Staph) [ATCC 6538], Streptococcus pyogenes (Strep) [ATCC 9342]



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**DIRECTIONS FOR USE:**

[WHERE TO USE: -OR- WHERE DO I USE THIS PRODUCT?]

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

**LAUNDRY USE:**

STANDARD WASHER - 3/4 CUP

EXTRA LARGE WASHER - [up to] 1 1/4 CUPS

Sort laundry by color. If uncertain about dye colorfastness, test fabric by applying 1 drop of a solution made of 2 teaspoons 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. Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.

Add this product to dispenser, if available. If not, add bleach and detergent with the wash water before the laundry is put in. For best laundry results, dilute 3/4 cup of this product in 1 quart of water. Add to wash 5 minutes after the wash cycle has begun. For heavily soiled loads add slightly more -or- [up to] 1 1/4 cup of this product.

**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 3/4 cup] use the directions for Handwash[, Disinfect] or Pretreat Stains to disinfect/sanitize laundry. In machines with 3/4 cup or larger bleach dispensers, add clothes, detergent, 3/4 cup of this product, and start wash. -or- Use up to 1 1/4 cups for extra large or heavily soiled loads.

**For Best Laundry Results:**

To pretreat stains, rinse to remove loose soil and fully soak garment for 5 minutes in solution of 1/4 cup of this product to 1 gallon of cool water. -or-

To pretreat, rinse stain and soak garment for 5 minutes in solution of 1/4 cup of this product to 1 gallon of cool water. -or-

To handwash, disinfect or pretreat stains and clean heavy soils, rinse to remove loose soil and fully soak each garment for 5 minutes in a solution of 1/4 cup of this product to 1 gallon of cool water.

To disinfect or sanitize laundry, add 3/4 cup of this product to a standard size washer following the laundry use directions.

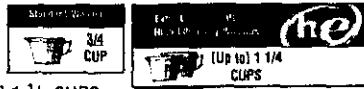
To kill bacteria [Staphylococcus aureus (Staph) [ATCC 6538], Klebsiella pneumoniae [ATCC 4352]] in laundry, add 3/4 cup of this product to a standard size washer following the laundry use directions.

To disinfect and deodorize diapers in pails, soak in 1/4 cup of this product to 1 gallon of water for 5 minutes.

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

- Add 3/4 cup of this product to wash 5 minutes after wash cycle has begun.
  - For extra large or heavily soiled loads, add up to 1 1/4 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.

(Compatible for High Efficiency or HE washing machines)



1. Sort laundry by color.



2. Add 3/4 cup of this product and detergent to wash water, or [up to] 1 1/4 cups of bleach for extra large washer.\*



3. Add laundry.

\* Use bleach dispenser if available.

**DISINFECTING:** Kills Staphylococcus aureus (Staph) [ATCC 6538], Streptococcus pyogenes (Strep) [ATCC 9342], [Salmonella choleraesuis] -or- Salmonella enterica (Salmonella) [ATCC 10708], Pseudomonas aeruginosa (Pseudomonas) [ATCC 15442], Influenza A2 (Hong Kong) [VR-544], Adenovirus Type 2, Rhinovirus Type 37 [ATCC VR-1147] (viruses that cause colds and flus), Trichophyton mentagrophytes (Athlete's Foot Fungus) [ATCC 9533], Rotavirus [Strain WA] [ATCC VR-2018], Hepatitis [Type] A [ATCC VR-2093] [strain HM-175], Cytomegalovirus [ATCC VR-578] [Strain AD-169], Respiratory Syncytial Virus [ATCC VR-26] [Strain Long], Varicella zoster Virus [ATCC VR-586], Herpes Virus [Type] 2 (Herpes) [ATCC 734] [Strain G], Canine parvovirus [ATCC 953], Feline parvovirus [ATCC 648], Rubella virus [ATCC VR-315], (German measles virus), Escherichia coli O157:H7 [ATCC 35150] (E. coli), Mycobacterium bovis [ATCC 35743] (Tuberculosis), Shigella dysenteriae [ATCC 13313], Aspergillus niger [ATCC 6275] (mildew), Human Coronavirus [ATCC VR-740] and Avian Influenza [virus] Type A [ATCC VR-2072].  
 \* 10 minute contact time \*\* 1 3/4 cup/gal 5 minute contact time

**Kitchen:** Refrigerators, work surfaces, garbage disposals, freezers, sinks, appliances, plastic laminate, stoves, stovetops, countertops, (ceramic) tile (floors or countertops), vinyl, linoleum, solid surface countertops, glass, garbage cans, trash cans, trash compactors, dish cloths, brushes, synthetic sponges, mops, latex enamel painted woodwork, walls, faucets.

**Bathroom:** Bathtubs, urinals, faucets, showers, shower curtains, shower walls, shower doors, potty seats, sinks, countertops, porcelain, floors, vinyl, tile, cat litter boxes, combs and brushes, and mold and mildew removal.

**Baby's Nursery -and/or- Items:** Toys, changing tables, painted cribs, high chairs, plastic mattress covers, bumpers, and diaper pails.

**Outdoors:** Kills/Removes mold, moss, and mildew on/from outdoor siding, tile, brick, stucco, and patio stone, finished woodwork (decks, fences, arbors, trellises, benches, and patio furniture), and golf balls. Also use on flower pots and planters. For heavy soil, preclean surface before disinfecting.

**For use in:** Hospitals, nursing homes, clinics, dental offices, day care centers, physicians' offices, health clubs, ambulances, hotels/motels/condominiums, timeshares, restaurants, diners, schools, restrooms, bathrooms, kitchens, kennels, veterinary offices, office buildings, offices, homes, food processing plants/facilities, animal husbandry, animal care facilities, meat processing plants, attics, closets, churches, storage areas, universities, institutions, military installations, patient rooms, dorms, shelters, laboratories, medical clinics, play areas, school buses, toilet areas, sick rooms and locker room facilities.

**DISINFECTING:**

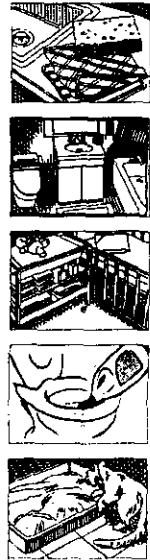
Use 3/4 cup of this product per gallon of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Let stand 5 minutes. Rinse thoroughly and air dry.

**Toilet Bowls and/or Bidets:** Flush toilet/bidet. Pour 1 cup of this product into bowl. Brush entire bowl including rim with a scrub brush or mop; let stand 10 minutes before flushing again.

**Potty Seats:** Empty seat. Fill with 3/4 cup of this product per gallon of water. Let stand 5 minutes. Rinse with clean water. (Let dry.)

**Litter Boxes:** Remove litter. Wash box in soap/water. Fill with 3/4 cup of this product per gallon of water. Let stand 5 minutes. Rinse with clean water. (Let dry.)

**Mildew:** Use 1 cup of this product per gallon of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Let stand 5 minutes. Rinse thoroughly and air dry.



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**SANITIZING:**

**Food Contact Surfaces:** Refrigerators, freezers, plastic cutting boards, stainless cutlery, dishes, glassware, countertops, pots and pans, stainless utensils - Use approximately 1 tablespoon of this product per gallon of water to prepare a 200 ppm available chlorine solution; use chlorine test strips to determine exact available chlorine concentration. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 minutes. Air dry.

**Wooden cutting boards:** Use approximately three tablespoons of this product per gallon of water to prepare a 600 ppm available chlorine solution; use chlorine test strips to determine exact available chlorine concentration. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 minutes. Rinse all surfaces with a solution of 1 tablespoon of this product per gallon of water. Do not rinse or soak equipment overnight.

**DO NOT USE ON STEEL, ALUMINUM, SILVER OR CHIPPED ENAMEL.**

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

[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]**  
**Clean (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 5 minutes in a solution of  $\frac{3}{4}$  cup of this product to 1 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 2 minutes, 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  $\frac{3}{4}$  cup of this product per gallon of water. Let solution stand 5 minutes before rinsing thoroughly.

**HOUSEHOLD [HINT] [USE]**  
**Keep Wading Pools Sanitary**

This product is excellent for chlorinating wading pools. As a general rule, use  $\frac{1}{4}$  cup per 100 gallons of water. For example, an 8-foot diameter pool holding 1 foot of water would require  $\frac{1}{2}$  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.

**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  $\frac{3}{4}$  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 [ $\frac{3}{4}$  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**  
 Protect nearby plants and grass by watering area thoroughly before and after product use. 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 1 cup of this product to 1 gallon of water. Reapply the solution as needed to keep the area wet for 5 minutes. Brush as needed to remove moss and then rinse thoroughly. [Do not use on painted wood.] Avoid excessive runoff near plants.

**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  $\frac{3}{4}$  cup of this product per gallon of water over the inside of the can. Let the solution stand 5 minutes before rinsing.

**HOUSEHOLD [HINT] [USE]**

**Keep Cut Flowers Fresh Longer**  
 Fresh cut flowers will stay beautiful longer if you add  $\frac{1}{4}$  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  $\frac{3}{4}$  cup bleach to (1) 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  $\frac{3}{4}$  cup of this product. Soak kitchen cloths in solution for [at least] 5 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  $\frac{3}{4}$  cup of this product per gallon of soapy water. Let stand 5 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 2 minutes in a solution of 1 tablespoon of this product per gallon of water. Pour solution through nipples; then drain dry.

**HOUSEHOLD [HINT] [USE]**

**Keep 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,  $\frac{1}{2}$  gallon hot water, 1 cup corn syrup and  $\frac{1}{8}$  cup powdered chelated iron [available from local nurseries].

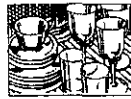
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**HOUSEHOLD [HINT] [USE]**  
**Removing Exterior Mold**

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 5 to 15 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 china, dinnerware, dishes, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 2 minutes 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 bleach in 1 gallon of water. Let stand 5 minutes. Rinse and allow to [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.

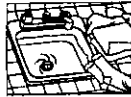
- 1) Wash, wipe or rinse items with water.
- 2) Apply disinfecting solution of 3/4 cup of this product per gallon of water.
- 3) Let stand 5 minutes before rinsing.
- 4) Rinse thoroughly and air dry.



**HOUSEHOLD [HINT] [USE]**  
**Toilet Bowls:**

Disinfect and deodorize your toilet

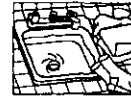
- 1) Flush toilet.
- 2) Pour 1 cup of this product into bowl.
- 3) Brush entire bowl, including rim, with a scrub brush or mop.
- 4) Let stand 10 minutes before flushing again.



**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] 5 minutes, then rinse products and sink. Allow to air dry.



**HOUSEHOLD [HINT] [USE]**  
**Recharge Halosource™ Products in Sink**

This product can maintain or recharge products containing HaloShield™ or HaloFresh™, a patented textile treatment from HaloSource™. Fill sink with a gallon of water. Add 3/4 cup of this product. Soak cloths in solution for [at least] 5 minutes, then rinse sink and cloths. Allow to air dry.



**HOUSEHOLD [HINT] [USE]**  
**Washer -or- Recharge Instructions for HaloSource™ [Treated] Products:**

**Before Use:** Wash in a [normal] laundry load with 3/4 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 3/4 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]**  
**Recharge Halosource™ Products in Washer**

This product can maintain or recharge products containing HaloShield™ or HaloFresh™, a patented textile treatment from HaloSource™. Wash regularly in a laundry load with 3/4 cup of this product. Follow laundry use instructions.



**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 5 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 5 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 5 minutes before rinsing.

**Refrigerators:**

Wash surfaces with a solution of 3/4 cup of this product per gallon of soapy water. Let stand 5 minutes. Rinse thoroughly and then air dry interior surfaces a few minutes before replacing food.

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**ULTRA CLOROX® BRAND REGULAR BLEACH**

For a cleaner, fresher laundry and household

This product, a germicide and/or broad spectrum disinfectant, is a 6.0[0]% sodium hypochlorite solution containing 5.7% 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.

- Whitens, and removes stains -or- • Brightens whites and removes stains • Safe for most color-fast washables
- Boosts cold water cleaning power • Disinfects and deodorizes by killing most odor-causing germs and their odors
- Whitens bleachable fabrics • Removes [Tough] Stains • Cleans

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. [Use approximately one tablespoon of this product per gallon of water to prepare a 200 parts per million (ppm) available chlorine solution.]

**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 (1/2 oz)	1 Gallon	Wash, rinse, wipe surface area with bleach solution for at least 2 minutes, let air dry.
Dishes, Glassware, Utensils	1 Tbsp (1/2 oz)	1 Gallon	Wash and rinse. After washing, soak for at least 2 minutes in bleach solution, [drain] and air dry.
Refrigerators, Freezers	1 Tbsp (1/2 oz)	1 Gallon	Wash, rinse, wipe surface area with bleach solution for at least 2 minutes, let air dry.
Garbage Cans	3/4 Cup (6 oz)	1 Gallon	After washing and rinsing, brush inside with bleach solution. Let stand for 5 minutes before rinsing.
Sponges, Dishcloths & Rags	3/4 Cup (6 oz)	1 Gallon	Pre-wash items, then soak them in bleach solution for at least 5 minutes. Rinse well and air dry.
<b>FOR DISINFECTING</b>			
Floors, Walls, Vinyl, Tiles (6 oz)	3/4 Cup	1 Gallon	Pre-wash surface, mop or wipe with bleach solution[. Allow solution to contact surface] for at least 5 minutes. Rinse well and air dry.
Bathtubs, Showers & 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 5 minutes. Rinse well and air dry.
Laundry	3/4 Cup (6 oz)	Standard Washer	Use 1 1/4 cups bleach for extra large washers -or- heavily soiled loads. Use a detergent.
Toilet Bowl	1 Cup (8 oz)	[Toilet Bowl]	Flush toilet. Pour this product into bowl. Brush bowl, making sure to get under the rim, and let solution stand for 10 minutes and flush again.
<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 (8 oz)	—	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	1 Cup (8 oz)	1 Gallon	Add bleach to [powdered] detergent solution. Apply, let stand -or- [for] 5 minutes. Wipe and rinse.

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## How to Sanitize and Disinfect with This Product

This product is an effective multi-purpose sanitizer/disinfectant that kills many bacteria that may cause food poisoning.

An effective multi-purpose sanitizer/disinfectant that kills many bacteria that may cause food poisoning.

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.

### To Sanitize

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

1 CUP (2 OZ) THIS PRODUCT  
5 GALLONS WATER  
DIP 2 MINUTES

WASH RINSE IMMERSIVE IN SANITIZING SOLUTION DRAIN DRY

#### Food Contact Surfaces

1 1/2 OZ (3 Tbsp) THIS PRODUCT  
3 GALLONS WATER  
2 MINUTES

CLEAN AND RINSE WIPE WITH SANITIZING SOLUTION AIR DRY

#### Food Equipment

1 1/2 OZ (3 Tbsp) THIS PRODUCT  
3 GALLONS WATER  
2 MINUTES

CLEAN AND RINSE WIPE WITH SANITIZING SOLUTION AIR DRY

#### Refrigerators & Freezers

1 1/2 OZ (3 Tbsp) THIS PRODUCT  
3 GALLONS WATER  
2 MINUTES

WASH WIPE WITH SANITIZING SOLUTION DRY AIR DRY

#### Mops, Brushes, Rags

5 GALLON SINK  
1 1/2 CUPS (12 OZ) THIS PRODUCT  
2 GALLONS WATER  
2 MINUTES  
AIR DRY

WASH/RINSE SOAK RINSE AIR DRY

### To Disinfect

#### Floors & Walls

PRE-WASH SURFACE TO BE TREATED  
2 1/2 CUPS (18 OZ) THIS PRODUCT  
3 GALLONS WARM WATER  
MOP FOR 5 MINUTES  
RINSE & LET DRY

#### Toilets

SOAK 10 MINUTES  
1 CUP (8 OZ) THIS PRODUCT  
FLUSH BRUSH FLUSH

FLUSH BRUSH FLUSH

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## SERVICE BULLETIN

### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) SANITATION IN CARE OF LIVESTOCK, HORSES, PETS

**TO CLEAN AND DISINFECT BARN, STABLES, HUTCHES, KENNELS:** Remove all litter, loose dirt and debris. Mix 1 oz [powdered] detergent with each gallon of 2700 ppm available chlorine solution 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] 5 minutes. Rinse with clean, clear, **cold** water. Let area dry thoroughly before housing animals.

**LOADING AND HAULING EQUIPMENT:** Loading chutes, trucks, trailers and other equipment for transportation of animals should be cleaned and disinfected prior to use. Pressure-spray or scrub with solution prepared by thoroughly mixing 1 oz [powdered] detergent with each gallon of 2700 ppm available chlorine solution\*. Let stand for [at least] 5 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 mixed with each gallon of 2700 ppm available chlorine solution\*. Let stand for [at least] 5 minutes. Rinse thoroughly with clear, **cold** water; allow to drain dry. (A solution of 1800 ppm available chlorine is effective in removing slime which sometimes forms on drinking water containers. DO NOT LET ANIMALS DRINK THIS SOLUTION.)

**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 above.)

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

### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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. Rinse surfaces thoroughly with a 2700 ppm available chlorine solution. Allow solution to remain on the surface for 5 minutes. Rinse. [Let air dry.]

**TO DISINFECT TOILETS:** Flush toilet. Pour [1 cup of] bleach into bowl. Brush bowl [thoroughly], making sure to get under the rim and let solution stand for 10 minutes and flush again.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR SWIMMING POOL DISINFECTION

This product is a 6.0% sodium hypochlorite solution, containing approximately 5.7% available chlorine by weight. The purity of its ingredients and the carefully supervised process of its manufacture make this product a quality 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 7½ 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. Use chlorine test strips to adjust to the desired concentration.

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 ½ pint of this product with 5 gallons of water and scatter over a portion of the pool surface; repeat until 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 to 1.5 ppm available chlorine.

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

Every 7 days, or as necessary, superchlorinate the pool with 100-200 oz of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

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 product 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 ½ gallon of this product to 5 gallons of water applying solution with a fiber brush. The pool should be scrubbed while wet 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 water. When added as recommended, this product has no deleterious effects on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) IN SANITATION OF RESTAURANTS AND TAVERNS

An unclean kitchen and contaminated food result in the hazards of contaminated surfaces. 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 200 ppm available chlorine sanitizing solution. Apply this solution 1 minute. Air dry.

**TO DISINFECT WORK SURFACES (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 2700 ppm available chlorine disinfecting solution. Apply this solution 5 minutes. Rinse with potable water. Air dry.

**TO SANITIZE DISHES, GLASSWARE, UTENSILS:** Wash thoroughly; then soak 2 minutes in a 200 ppm available chlorine solution [made with 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. Disinfect these by scalding.)

**DISINFECTING SINK AND SANITIZING 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 fill with a 2700 ppm available chlorine solution. Let stand 5 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 a 200 ppm available chlorine solution made with warm water. Let stand for [at least] 2 minutes. 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 1 oz [regular] [powdered] detergent with each gallon of 450 ppm available chlorine solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 minutes with a 200 ppm available chlorine solution; drain thoroughly.

**TO DISINFECT HARD, NONPOROUS FLOORS** (plastic or ceramic tile): Prepare a 2700 ppm available chlorine solution. Mop or scrub. (Do not use on cork or linoleum.) Let stand 5 minutes. Rinse.

**TO SANITIZE BRUSHES, MOPS AND BROOMS:** After using brushes, mops and brooms, wash thoroughly; then soak for 5 minutes in a 2700 ppm available chlorine solution made with warm water. Rinse with clear water; dry. (Not recommended for cellulose sponge mops.)

**PAIS AND DUSTPANS:** Remove heavy dirt prior to cleaning. Wash with a 2700 ppm available chlorine solution. Let stand 5 minutes. Rinse with clear, cold water. Air dry.

**TO DEODORIZE AND SANITIZE GARBAGE CANS:** Remove heavy dirt with a cleaner. Rinse. Pour in a 2700 ppm available chlorine solution. Swab inside surfaces with this solution. Let stand 5 minutes. Rinse with clear water; dry.

### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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 200 ppm available chlorine solution should be maintained when the solution temperature is 75° F. Use chlorine test strips to adjust solution to desired strength. Lower solution temperatures result in slower action; for each 18° F drop in temperature, approximately double 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.





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**RUBBER TEAT CUPS AND TUBES** - Before each milking, prepare a 200 ppm available chlorine sanitizing solution. Dip teat cups into 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 a 200 ppm available chlorine sanitizing solution in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 2 minutes, holding ends of tubes; coil tubes slowly into solution between milkings; drain thoroughly before using.

To maintain sanitizing solution at proper strength, add 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 of 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 a 200 ppm available chlorine sanitizing solution; place solution in bottle above rack for 2 minutes. 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 a 200 ppm available chlorine sanitizing solution. 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 a 200 ppm available chlorine solution for 2 minutes; drain thoroughly and dry before using. **(Metal cups should not be left in bleach solution.)**

**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 1 oz of your [regular] [powdered] detergent with each gallon of a 200 ppm available chlorine 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 shown below.\***

**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 your [regular] [powdered] detergent with each gallon of a 200 ppm available chlorine 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 shown below.\***

**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 your [regular] [powdered] detergent thoroughly mixed with each gallon of 200 ppm available chlorine solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions shown below.\***

**MILK BOTTLES - To sanitize:** Clean and rinse, then immerse for 5 minutes in a 200 ppm available chlorine solution prepared with cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach 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 [regular] [powdered] detergent with each gallon of 200 ppm available chlorine 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 a 200 ppm available chlorine sanitizing solution 2 minutes; drain thoroughly.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) DISINFECTING GUIDE

This product – a germicide – is a 6.0% sodium hypochlorite solution containing approximately 5.71% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering and household disinfecting, it 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 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 with natural sponge.

Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

If used on metal, solution 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, 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 tsp	=	1 Tbsp	=	1/2 Ounce	=	1/16 Cup
16 Tbsp	=	8 Ounces	=	1 Cup	=	1/2 Pint

For directions on sanitizing and disinfecting specific surfaces, write:

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

## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) AS A FUNGICIDE FOR SEED POTATOES

This product is fungicidal to the *Verticillium* wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A bleach 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 of 6000 ppm available chlorine for spraying. 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 bleach 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.

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**Safety Precautions**

Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of this product with skin. Wear safety glasses. If full strength or diluted bleach is splashed in the eyes, flush with water.

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.

**NOTE: DO NOT USE THE TREATED SEED FOR FOOD OR FEED.** Use the bleach treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or bleach 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.

**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR WADING POOL DISINFECTION**

This product - a 6.0% sodium hypochlorite solution containing approximately 5.7% available chlorine by weight - is a convenient, economical source of chlorine for water treatment in swimming and wading pools. Also, because this product is a liquid with no insoluble 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.)

-or-

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. Empty small pools daily. (This product will not harm plastic pools.)

Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The chart below is a guide to the amount of this product to add to various sized round pools. One-eighth cup of this product should be added to every 100 gallons of pool water.

		Pool Diameter				
Depth of Water		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 tsp	=	1 Tbsp	=	1/2 Ounce	=	1/16 Cup
16 Tbsp	=	8 Ounces	=	1 Cup	=	1/2 Pint

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.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR FOOD EGG SANITATION

**To sanitize food eggs:** Thoroughly clean all eggs. Prepare a 200 ppm 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 casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR POULTRY CARE -OR- TO KILL Avian Influenza [virus] Type A [ATCC VR-2072]

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.

**TO SANITIZE DRINKING WATER:** Prepare a 5 ppm available chlorine solution using clear water. Let stand 1 minute. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, a 2 ppm available chlorine solution should be prepared 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., an 1800 ppm available chlorine solution is effective in removing the slime. **DO NOT ALLOW BIRDS TO DRINK THIS SOLUTION.**

**TO CLEAN AND DISINFECT POULTRY HOUSES, BROODERS, HATCHERIES:** 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 litter, loose dirt and debris.
- (2) Thoroughly mix solution of 1 oz [powdered] detergent with each gallon of 2700 ppm available chlorine solution\*.
- (3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams. Let stand for 5 minutes.
- (4) Rinse with clean, clear, **cold** water.
- (5) Let dry thoroughly before introducing poultry.

**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 thoroughly mixed with each gallon of 1400 ppm available chlorine solution\*. Let stand for 2 minutes. Rinse with clear, **cold** water. Let dry.

**For continuous washers,** prepare washing solution as above. Add an additional 1/2 oz of detergent per every 4 gallons of 50 ppm available chlorine solution 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 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 200 ppm available chlorine.

\*Where this product/detergent solution is recommended for sanitizing poultry houses and equipment, use **hot** water (140° F or above) if available.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) SANITATION IN CARE OF SWINE

### HOG HOUSES AND FARROWING HOUSES - To clean and disinfect:

- (1) Remove loose dirt, litter and debris. Dirty or coated surfaces cannot be disinfected.
- (2) Mix 1 oz [powdered] detergent with each gallon of 2700 ppm available chlorine solution until detergent is dissolved.\* Let stand for [at least] 5 minutes.
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stall chutes and other facilities occupied or traversed by animals. Empty all troughs, feeding and watering appliances. Thoroughly clean all surfaces with soap or detergents and rinse with water.

Ventilate buildings, cars, boats and other closed spaces. Do not house livestock, poultry or employ equipment until chlorine has dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

**CLEAN AND DISINFECT METAL WATERING TROUGHS AND FEEDERS** by pressure-spraying or scrubbing with solution prepared by thoroughly mixing 1 oz [powdered] detergent and 2 oz of this product with each gallon of 2700 ppm available chlorine solution\*. Let stand for [at least] 5 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. (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 bleach/detergent solution, use hot water if available.

Use chlorine test strips to adjust to desired available chlorine level.

## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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 (3/4 cup of bleach per standard washer, 1 1/4 cup for extra large washers or heavily soiled loads). Use a good detergent. For best results, dilute bleach with a quart of water and add to wash 5 minutes after the wash has begun. Use chlorine test strips to adjust to exactly 200 ppm available chlorine.

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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS**

This product is authorized for use as a sanitizing solution in official establishments operating under the USDA meat, poultry, shell egg grading and egg products inspection programs.

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 bleach solution used for sanitizing should not exceed 200 ppm (parts per million) available chlorine. (Use chlorine test strips to adjust to 200 ppm available chlorine.) 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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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
FOR 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.

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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
FOR DISINFECTION OF DRINKING WATER (POTABLE)  
(Emergency/Public/Individual Systems)**

**Emergency Disinfection**

When boiling of water for 1 minute is not practical, water can be made potable by using this product. **Prior** to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the **clarified** contaminated water to a clean container and add 8 drops, 1 teaspoon or 1/2 capful of this product to 1 gallon 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, 2 teaspoons or 1 capful of this product per gallon 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.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR 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 500 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.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR 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.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR 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. Re-treat well if water samples are biologically unacceptable.

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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR 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 6000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 minutes, rinse by hosing with clean water.

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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR SPAS, HOT TUBS AND IMMERSION TANKS, ETC.

#### A. Spas/Hot-Tubs

Using a dilution chart or formula, calculate an approximate 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 1 3/4 cups to 500 gallons of water.
- 3. Periods of Disuse:** During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.
- Do not reenter pool until the chlorine level is between 1 to 3 ppm. Re-entry to treated spas/hot-tubs is prohibited above 5 ppm due to risk of bodily harm.

*Not approved for use in the State of California*

#### B. Hubbard and 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.

#### C. 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.

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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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: 6000 ppm available chlorine solution

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: 10,000 ppm available chlorine solution

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.



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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: 10,000 ppm available chlorine solution

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.

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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) BACTERICIDAL EFFICACY

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

*Gram positive bacteria* including:  
*Staphylococcus aureus* [ATCC 6538]  
*Streptococcus pyogenes* [ATCC 9342]

*Gram negative bacteria* including:  
*[Salmonella choleraesuis] -or- Salmonella enterica* [ATCC 10708]  
*Pseudomonas aeruginosa* [ATCC 15442]  
*Escherichia coli serotype O157:H7* [ATCC 35150]  
*Shigella dysenteriae* [ATCC 13313]

#### 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 2700 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 5 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 2700 ppm available chlorine solution. Let stand [at least] 5 minutes. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add 1 cup of bleach to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 10 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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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) TUBERCULOCIDAL EFFICACY

This product, when used as directed below, is effective against *Mycobacterium bovis* [ATCC 35743].

#### 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 6000 ppm available chlorine solution. 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.

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**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.

### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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>Rotavirus [Strain WA] [ATCC VR-2018]</i>
<i>Avian Influenza [virus] Type A [ATCC VR-2072]</i>	<i>Cytomegalovirus [ATCC VR-578] [Strain AD-169]</i>
<i>Hepatitis [type] A [ATCC VR-2093] [strain HM-175]</i>	<i>Influenza A2 (Hong Kong) [VR-544]</i>
<i>Human Immunodeficiency virus Type 1 (HIV-1) [RF strain]‡</i>	<i>Varicella zoster virus [ATCC VR-586]</i>
<i>Respiratory Syncytial Virus [ATCC VR-26] [Strain Long]</i>	<i>Rhinovirus Type 37 [ATCC VR-1147]</i>
<i>Herpes simplex virus 2 [ATCC VR-734]</i>	<i>Canine parvovirus [ATCC 953]**</i>
<i>Rubella virus [ATCC VR-315]</i>	<i>Human Coronavirus [ATCC VR-740]</i>
<i>Feline parvovirus [ATCC 648]**</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 2700 ppm available chlorine solution. 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 Ultra Clorox® Brand Regular Bleach 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 2700 ppm available chlorine solution. Let stand [at least] 5 minutes. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add 1 cup of bleach 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.

### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FUNGICIDAL\*\* EFFICACY

This product, when used as directed below, is effective against mold, Athlete's Foot Fungus (*Trichophyton mentagrophytes*) [ATCC 9533], and mildew (*Aspergillus niger*) [ATCC 6275].

#### Directions for Use:

##### Hard, Nonporous Surfaces:

**To disinfect mold on hard, nonporous surfaces:** [First] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 2700 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 5 minutes. Rinse with clean water and dry.

**To disinfect mildew on hard, nonporous surfaces:** [First] clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 3600 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on 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, shower stalls, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

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### **SPECIAL INSTRUCTIONS FOR USING ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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) [RF Strain] (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.

**Dilution and Contact Time:** Prepare a 2700 ppm available chlorine solution and spray or flood surface; let stand 5 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.

### **ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR FRUIT & VEGETABLE WASHING**

Thoroughly clean all fruits and vegetables in a wash tank. Prepare 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.

### **ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) Candida albicans [ATCC 1231] 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 2700 ppm available chlorine solution. 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.

**To sanitize diaper pails:** Preclean diaper pails with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2700 ppm available chlorine solution. Let stand [at least] 5 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.

### **ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR DISINFECTION USES (2700 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.

#### **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 2700 ppm available chlorine solution until thoroughly wet. Allow it to remain on the surface for 1 minute. Rinse and dry.

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

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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
FOR DISINFECTION USES (900 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.

**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 900 ppm available chlorine solution until thoroughly wet. Allow it to remain on the surface for 2 minutes. Rinse and dry.

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

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**USE ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
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.

**Directions for Use:**

1. Hook up a Clorox bleach bottle 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.
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 a 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 part 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.

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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
 PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS**

Crop/Site/Commodity: 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)

Target Pest/Problem: Plant parasitic nematodes, plant disease-causing fungi and general surface disinfection

Dosage: See dilution rate.

Dilution Rate: Six parts water with one part this product (equals approximately 0.85% active ingredient)

**Laboratory work areas, equipment and specimens:** Prepare a solution of five or six 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 5 to 10 minutes in the solution instead of scrubbing manually. Wipe off plant tissue or soak tissue in the solution.

Deciduous Fruit  
 Tree Nursery Stock: Five or six parts water with one part product (equals approximately 0.85% to 1.0% active ingredient)

Method of Application: 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.

Frequency/  
 Timing of Application: *As needed*

Deciduous Fruit Tree Nursery Stock:  
 One application at harvest (tree-digging period)

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.

**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
 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 3 parts water (equals approximately 1.5% active ingredient).

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.*

Crop/Site/Commodity: Wheat and triticale germplasm for research or seed increase use. Commodities may not be used for food, feed or oil purposes.

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Target Pest/Problem: Karnal bunt (*Tilletia indica*)

Dosage: See dilution rate.

Dilution Rate: Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient) with 2mL/L Tween added.

Method of Application: Treat seed with the dilute solution and agitate for 10 minutes at room temperature. Follow seed treatment by a 15 minute rinse with clean, running water, then drying of the seed.

**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.

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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
 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 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 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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**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50)  
 CITRUS CANKER TREATMENT USE DIRECTIONS**

**Not approved for use in the State of California**

Crop/Site/Commodity: T511-1 Citrus and other Rutaceous seeds from citrus canker countries

Target Pest/Problem: *Xanthomonas axonopodis*, pv. citri (citrus canker)

Dosage: See dilution rate.

Dilution Rate: Mix 1 part of this product to 9 parts water (equals approximately 0.6% active ingredient).

Method of Application: T511-1 seeds shall be treated for possible infection with citrus canker bacteria by first washing seeds if any mucilaginous materials are adhering. Next, immerse the seeds in water at 125 degrees F or higher for 10 minutes. Then immerse seeds for a period of at least 2 minutes in a 0.6% sodium hypochlorite solution. Drain, dry and repack near original moisture content.

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### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) 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	2 pints	9 1/2 pints
6,000	1 part	9 parts
	1 3/4 cups (14 oz)	1 gallon
	9 cups	5 gallons
3,600	1 part	17 parts
	1/4 cup (2 oz)	1 quart
	1 cup (8 oz)	1 gallon
2,700	1 part	21 parts
	1 1/2 Tbsp. (3/4 oz)	1 pint
	3 Tbsp. (1 1/2 oz)	1 quart
	3/4 cup (6 oz)	1 gallon
	1 1/2 cups (12 oz)	2 gallons
1,800	1/2 cup (4 oz)	1 gallon
	1 cup (8 oz)	2 gallons
	3/8 cup (3 oz)	1 gallon
1,400	3/4 cup (6 oz)	2 gallons
	1 Tbsp. (1/2 oz)	1 quart
900	1/4 cup (2 oz)	1 gallon
	1 cup (8 oz)	4 gallons
450	1 1/2 tsp.	1 quart
	2 Tbsp. (1 oz)	1 gallon
	1/2 cup (4 oz)	4 gallons

Approximate ppm Available Chlorine	Volume of Bleach	Volume of Water
200	1 Tbsp. (1/2 oz)	1 gallon
	2 Tbsp. (1 oz)	2 gallons
	5 Tbsp. (2 1/2 oz)	5 gallons
	5 oz	10 gallons
	1 quart 20 oz	100 gallons
100	4 gallons	1000 gallons
	2 1/2 oz	10 gallons
75	1/4 tsp.	1 quart
	1 tsp.	1 gallon
	1 Tbsp. (1/2 oz)	3 gallons
50	16 drops or 1 capful	1 quart
	3/4 tsp.	1 gallon
	1 Tbsp. (1/2 oz)	4 1/2 gallons
25	2 1/2 Tbsp. (1 1/4 oz)	10 gallons
	1 tsp.	3 gallons
10	2 1/2 tsp.	7 1/2 gallons
	5 tsp.	15 gallons
	16 drops or 1 capful	1 gallon
5	3/4 tsp.	5 gallons
	1 1/2 tsp.	10 gallons
	8 drops or 1/2 capful	1 gallon
	3/4 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