



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JUN 23 1999

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Janice Saiki  
Clorox Services Company  
P.O. Box 493  
Pleasanton, CA. 94566-0803

SUBJECT: December 15, 1998 Application  
Ultra Clorox Brand Regular Bleach  
EPA Registration 5813-50

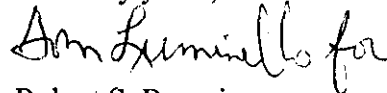
Dear Ms. Saiki:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comment(s) listed below. One copy of the final labeling must be submitted prior to releasing the product for shipment.

The efficacy data that you've submitted, MRID 433034-03, for antimicrobial effectiveness against *Escherichia coli* 0157:H7 is acceptable and can be added to your label. The label amendments resulting from adherence to the Registration Standard of February, 1986 are acceptable. Your recommendation of an increase for dosage rate used for the emergency disinfection of drinking water is acceptable and much appreciated. Your amended label has been stamped approved and a copy with two additional edits is enclosed.

A copy of our review is attached. If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.

Sincerely yours,



Robert S. Brennis  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobial Division (7510-C)

Enclosure

20/20

Note to Reader: Italicized text is information for the reader and not part of the label. Bracketed text [ ] is optional text. Underlined text is new. Strike-through text means removed. (5813-50) Ultra Clorox Brand Regular Bleach 1 of 19

for front or back:

**CONCENTRATED**  
Contains 25% More Laundry Uses (than original -or- Regular Clorox Bleach) • Use  $\frac{3}{4}$  Cup

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

(Yields 5.7% available chlorine)  
Contains no phosphorus



**KEEP OUT OF REACH OF CHILDREN**

**DANGER:**

FIRST AID -or- STATEMENT OF PRACTICAL TREATMENT: IF IN EYES:  
rinse with plenty of water for 15 minutes. Get prompt medical attention.  
IF IN CONTACT WITH SKIN: wash skin thoroughly with water.  
See back panel for additional precautionary statements.

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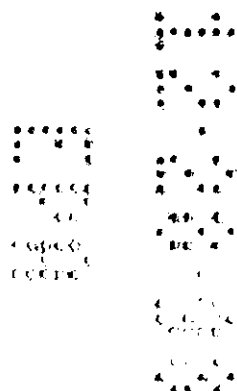
R-10126-5.1

ACCEPTED  
with COMMENTS  
in EPA Letter Docket

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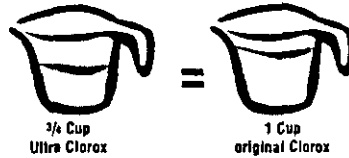
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(5813-50) Ultra Clorox Brand Regular Bleach 2 of 19

for front or back:

- New (formula)
- Removes/Eliminates Odors
- More Bleaching Power
- Removes Stains
- Deodorizes
- Disinfects
- Kills Germs
- Kills Bacteria
- Sanitizes
- Bleaches Out Tough Stains
- Whitens (and Removes Stains)
- Safe For Most Color-Fast Washables
- Eliminates Odors
- Boosts Cold Water Cleaning Power
- Disinfects and Deodorizes by Killing (Most) Germs and Their Odors
- *Ultra Clorox Brand Regular Bleach* For a Cleaner, Fresher, Laundry and Household
- Germicidal/Germicide
- Tuberculocidal/Tuberculocide
- Fungicidal/Fungicide
- Virucidal/Virucide
- Easier to handle, pour and store (than original Clorox Bleach)
- Unbeatable whitening
- Use (25%) less (than original Clorox Bleach for unbeatable whitening)
- Value size -or- pack
- Family size -or- pack
- Giant size -or- pack
- King size -or- pack
- Super -sized -or- pack
- Bigger value pack

- 25% more washes -or- wash loads -or- uses (than original Clorox Bleach)
- Especially recommended for Food Service Germicidal Applications
- Cleans and disinfects
- For institutional use
- Use (25%) less (than original Clorox Bleach)
- (Still) safe for all your bleachable wash loads
- Clorox Bleach goes Ultra
- Ultra Clorox Brand Regular Bleach is unbeatable
- For use in High-Efficiency washing machines



- More concentrated (than original Clorox Bleach)
- Free measuring cup inside with this purchase of Ultra Clorox Brand Regular Bleach
- Now 64 instead of 48 wash loads (compared to original Clorox Bleach)
- Now 16 more wash loads (than original Clorox Bleach)
- More value (than original Clorox Bleach)
- Whitens whites
- Smaller is better
- Not for (individual) resale

**New Ultra Clorox Brand Regular Bleach**

- New Formula: Just  $\frac{3}{4}$  cup provides the same whitening and cleaning benefit as 1 cup of original Regular Clorox Bleach
- Smaller bottle is easier to handle, pour and store (than original Clorox Bleach)
- This bottle contains 6 more laundry uses than the Regular Clorox Bleach 1.5 gallon size (180 ounce size)
- This bottle contains the same number of uses as the (1 gallon,  $\frac{1}{2}$  gallon, 1 quart) original/Regular Clorox Bleach size



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(5813-50) Ultra Chlorox Brand Regular Bleach 3 of 19

**DIRECTIONS FOR USE:**

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-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. Or for best results, dilute bleach with a quart of water and add to wash 5 minutes after the wash cycle has begun. For heavily soiled loads add slightly more of this product.



1. Sort laundry by color.



2. Add 3/4 cup of this product or 1 1/4 cups for extra large washer.\*

3. Add detergent with the wash water before laundry is put in.

\* Use bleach dispenser if available.

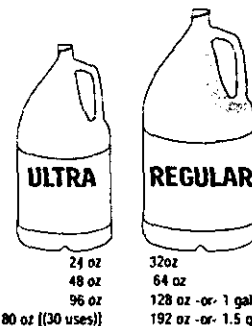
**STANDARD WASHER**3/4  
CUP**EXTRA LARGE WASHERS**1 1/4  
CUPS

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)/ Klebsiella pneumoniae] 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.

**GENERAL HOUSEHOLD CLEANING:**

**DISINFECTING:** Kills Staphylococcus aureus (staph), Streptococcus pyogenes (strep), Salmonella choleraesuis (salmonella), Pseudomonas aeruginosa (pseudomonas), Influenza A<sub>2</sub>, Adenovirus Type 2, Rhinovirus Type 17 (viruses that cause colds and flus), Trichophyton mentagrophytes (athlete's foot fungus), Aspergillus niger (mold and mildew), Rotavirus, Hepatitis A, Cytomegalovirus, Respiratory Syncytial Virus, Varicella zoster Virus, Herpes Virus 2 (herpes), Canine parvovirus, Feline parvovirus, Rubella virus (German measles virus), Escherichia coli O157:H7 (E. coli), Legionella pneumophila (legionella, the bacteria that causes Legionnaire's disease), Mycobacterium bovis (tuberculosis).

**HOUSEHOLD USE DIRECTIONS:**

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.

**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, cat litter boxes, combs and brushes, and mold and mildew removal.

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

**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.)

**ENVIRONMENTAL SURFACES:**

**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, pre-clean 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 and storage areas.

**SANITIZING:**

**Food Contact Surfaces:** refrigerators, freezers, plastic cutting boards, stainless cutlery, dishes, glassware, counter tops, 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 of food equipment overnight.

**Hand Sanitization:** Use approximately 1/2 ounce of this product per 4 gallons of water to prepare a 50 ppm available chlorine solution; use chlorine test strips to determine exact available chlorine concentration. Wash, then rinse hands. Rinse thoroughly with solution.

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

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**HOUSEHOLD HINT****Clean 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****Sanitize Pet's Food and Water Bowls**

To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 1 tablespoon of this product per gallon of water. Let stand 1 minute, drain and air dry.

**HOUSEHOLD HINT****Keep Wading Pools Sanitary**

This product is excellent for chlorinating wading pools. As a general rule, use  $\frac{1}{8}$  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****Cleaning Mold and Mildew**

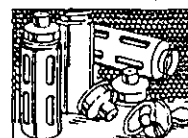
Mold and mildew in the bathroom can be removed easily and effectively using this product. Simply wipe down surfaces using a solution of  $\frac{3}{4}$  cup of this product to each gallon of warm water. Keep surface wet 5 to 15 minutes; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces.

**HOUSEHOLD HINT****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****Cleaning Kitchen Cloths**

This product can help you deodorize and disinfect 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 5 minutes, then rinse sink and cloths. Allow to air dry.

**HOUSEHOLD HINT****Sanitizing Baby Items**

Baby bottles, nipples and dishes can be easily sanitized using this product. Soak washed items for 1 minute in a solution of 1 tablespoon of this product per gallon of water. Pour solution through nipples; then drain dry.

**HOUSEHOLD HINT****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  $\frac{3}{4}$  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****Sanitize and Remove Stains from Kitchenware**

Tough stains can be removed from china, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 5 to 10 minutes in a solution of 1 tablespoon of this product to each gallon of water. Then drain and air dry.

**HOUSEHOLD HINT****Cleaning Baby Furniture and Toys**

Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorful toys are disinfected quickly and easily with this product. Plus, this product kills 99.9% of airborne household germs including those that cause odors. This product leaves baby's room clean and fresh smelling. Clean with a solution of  $\frac{3}{4}$  cup bleach in 1 gallon of water. Rinse and allow to air dry.

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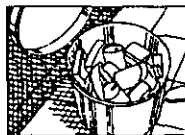
(5813-50) Ultra Clorox Brand Regular Bleach 5 of 19

**HOUSEHOLD HINT****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. Then rinse 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****Removing Patio Moss and Mildew Stains**

Patio moss and mildew stains can be unsightly, slippery and dangerous. Hose patio to remove loose debris. Then use this product to remove moss and mildew stains by washing the area with a solution of  $\frac{3}{4}$  cup of this product to 1 gallon of water. Reapply the solution as needed to keep the area wet for 5 to 15 minutes. Brush as needed to remove moss and then rinse.

**HOUSEHOLD HINT****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****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. Rinse and then air dry interior surfaces a few minutes before replacing food.

**HOUSEHOLD HINT****Sanitize Wooden Cutting Boards**

Wash counter or cutting board with hot, sudsy water. Rinse; then drain. Prior to use, rinse surface thoroughly with solution of 3 tablespoons of this product per 1 gallon of water. Keep surface wet for at least 2 minutes. Rinse surface with a solution of 1 tablespoon of this product per gallon of water. Do not rinse or soak equipment overnight.

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(5813-50) Ultra Clorox Brand Regular Bleach 6 of 19

**ULTRA CLOROX® BRAND REGULAR BLEACH**

For a cleaner, fresher laundry and household

This product, a germicide and/or broad spectrum disinfectant, is a 6.00% sodium hypochlorite solution containing 5.7% available chlorine by weight. This product can be used on hard non-porous 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.

**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 5 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 drain.
<b>FOR DISINFECTING</b>			
Floors & Walls	3/4 Cup (6 oz.)	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	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.
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.
Laundry	3/4 Cup (6 oz.)	Standard Washer	Use 1 1/4 cups bleach for extra large washers. Use a detergent.
Toilet Bowl	1 Cup (8 oz.)	Toilet Bowl	Flush toilet. Pour this product into bowl. Brush entire bowl including under rim. Let stand 10 minutes before flushing.
<b>FOR DEODORIZING</b>			
Garbage Cans	1/4 Cup (2 oz.)		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, MILDEW &amp; STAIN REMOVAL</b>			
All Surfaces	3/4 Cup (6 oz.)	1 Gallon	Add bleach to [powdered] detergent solution. Apply, let stand 2- or 5-15 minutes. Wipe and rinse.

Una Cucharada del producto en un galón de agua es el equivalente de 200 partes por millón (ppm) de cloro disponible.

**INSTRUCCIONES PARA EL USO**

Es una violación de la ley federal usar este producto de una manera inconsistente con la designación de la etiqueta sellada.

	Cantidad del producto	Cantidad de Agua	Instrucciones
<b>PARA LA HIGIENE DE</b>			
Áreas de trabajo	1 Cucharada (1/2 onza)	1 Galón	Lave, enjuague, frote la superficie con una solución de blanqueador por lo menos 2 minutos, deje secar al aire.
Platos, vasos, utensilios	1 Cucharada (1/2 onza)	1 Galón	Lave y enjuague. Después de lavarlos, sumérjalos en una solución de blanqueador, por lo menos 5 minutos, enjuague y deje secar al aire.
Refrigeradores, congeladores	1 Cucharada (1/2 onza)	1 Galón	Lave, enjuague, frote la superficie con una solución de blanqueador por lo menos 2 minutos, deje secar al aire.
Basureros	3/4 de Taza (6 onzas)	1 Galón	Después de lavarlos y enjuagarlos, cepíllelos por dentro con la solución de blanqueador. Deje secar.
<b>PARA DESINFECTAR</b>			
Pisos y paredes	3/4 de Taza (6 onzas)	1 Galón	Lave la superficie antes del tratamiento. Frieque o frote con la solución de blanqueador. Deje que la solución contacte la superficie por lo menos 5 minutos. Enjuague bien y deje secar al aire.
Bañeras, duchos	3/4 de Taza (6 onzas)	1 Galón	Lave la superficie antes del tratamiento (y) frote con la solución de blanqueador. Deje que la solución contacte la superficie por lo menos 5 minutos. Enjuague bien y deje secar al aire.
Espionias, toallas, y trapos	3/4 de Taza (6 onzas)	1 Galón	Lave los artículos antes del tratamiento, sumérjalos en la solución blanqueador por lo menos 5 minutos. Enjuague bien y deje secar al aire.
Lavandería	3/4 de Taza (6 onzas)	Lavadora Standard	Use una y cuarto taza de blanqueador para lavadas grandes. Use también un detergente.
Tasa del baño	1 Taza (8 onzas)	Tasa del baño	Jalar para inundar la cubeta del inodoro. Verter el producto en la cubeta. Cepillar toda la cubeta, incluso por debajo del reborde, con un cepillo o una alfilería. Dejar actuar durante 10 minutos y volver a jalar para enjuagar.
<b>PARA DESODORIZAR</b>			
Basureros	1/4 de Taza (2 onzas)	1 Galón	Después de lavarlos y enjuagarlos, cepíllelos por dentro con la solución de blanqueador. Deje secar.
Desagues, vertederos, sumideros	1 Taza (8 onzas)	=	Enjuague. Vierta la solución en el desagüe. Luego deje fluir agua caliente.
<b>PARA BLANQUEAR/DECOLORAR</b>			
Superficies de madera	3/4 de Taza (6 onzas)	1 Galón	Aplique la solución [por lo menos] 2- a durante] 2 [minutos. Luego enjuague la superficie.
<b>PARA QUITAR MOHO Y MANCHAS</b>			
En cualquier superficie	3/4 de Taza (6 onzas)	1 Galón	Agregue blanqueador a la solución detergente. Aplíquelo y déjelo en remojo 2- a 5-15 minutos. Enjuague y seque. Frote y luego enjuague la superficie.

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## SERVICE BULLETIN

### ULTRA CLOROX® BRAND REGULAR BLEACH 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 detergent and 3 oz of this product with each gallon hot\* or cold water until detergent is dissolved. Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. 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 detergent and 3 oz of this product to each gallon hot\* or cold water. 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 detergent and 2 oz of this product to each gallon of hot\* or cold water; rinse thoroughly with clear, cold water; allow to drain dry. (A solution of 1 oz of this product to each quart of water is effective in removing slime which sometimes forms on drinking water containers. DO NOT LET ANIMALS DRINK THIS SOLUTION.)

**TO SANITIZE ANIMALS' DRINKING WATER:** Thoroughly mix 8 drops of this product with 1 gallon clean water for 5ppm available chlorine. Use in glass, plastic, porcelain or concrete containers daily. (See directions above.)

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

#### MEASUREMENT TABLE

Approximate ppm (parts per million) available chlorine

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

Use chlorine test strips to adjust desired available chlorine level

### ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR DISINFECTION OF FLOORS, WALLS AND TOILETS (USDA\* Designations D2 & C2)

**TO DISINFECT FLOORS, WALLS AND SHOWERS (USDA Designation D2):** For non-porous surfaces such as vinyl or ceramic tile, clean surfaces to remove gross filth. Rinse surfaces thoroughly with a bleach solution containing 3/4 cup bleach per gallon of water. Allow solution to remain on the surface for 10 minutes. Let air dry.

**TO DISINFECT TOILETS (USDA Designation C2):** Flush toilet. Pour 1 cup of bleach into bowl. Brush bowl and let solution stand for 10 minutes and flush again.

\*Authorized by USDA for use in federally inspected meat and poultry plants.

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## ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR LAUNDRY USE (USDA\* Designation B1)

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 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.

\*Authorized by USDA for use in federally inspected meat and poultry plants.

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

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.

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If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 1/2 gallon of this product to 5 gallons of water applying solution with a fiber brush. The pool should be scrubbed while wet and rinsed off when algae growth has been removed; all of the growth and dirty solution would 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.

## ULTRA CLOROX® BRAND REGULAR BLEACH IN SANITATION OF RESTAURANTS AND TAVERNS

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

**TO DISINFECT WORK SURFACES (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a disinfecting solution of 3/4 cup of this product to each gallon of water. Apply this solution 5 minutes. Rinse with clear water; dry.

**TO SANITIZE DISHES, GLASSWARE, UTENSILS:** Wash thoroughly; then soak 5 minutes in solution of 1 tablespoonful of this product to each gallon of hot water. Use chlorine test strips to adjust to 200 ppm available chlorine. Drain dry. (Do not use on steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

**DISINFECTING SINK AND DISHCLOTH:** should be a routine follow-up to dishwashing. First wash sink and rinse dishcloth in hot suds. Drain out sudsy water. Then run a gallon of warm water into sink and mix in 3/4 cup of this product. Swish dishcloth in this solution; then use it to wipe sides of sink. Soak dishcloth for 5 minutes in this solution. Then rinse sink and dishcloth 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 HELP MAKE REFRIGERATORS HYGIENICALLY CLEAN:** First wash inside surfaces. Then wipe with solution of 3/4 cup of this product to each gallon of warm water. Rinse thoroughly with clear water; dry; air for 30 minutes. (Do not use on steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

**ICE CREAM FREEZERS - to clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 2 oz of this product with each 2 gallons of regular detergent solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 minutes with solution prepared by mixing 1 oz of this product with each 4 gallons of water; drain thoroughly.

**IN CLEANING FLOORS** (plastic or ceramic tile): Mix 3/4 cup of this product per gallon of water in your suds. Mop or scrub. (Do not use on cork or linoleum.)

**TO KEEP CLEANING EQUIPMENT SANITARY:** After using brushes, mops and brooms, wash thoroughly; then soak for 5 minutes in solution of 3/4 cup of this product to 1 gallon of warm water. Rinse with clear water; dry. (Not recommended for cellulose sponge mops.)

**Pails and dustpans:** After use, wash with solution prepared by thoroughly mixing 3/4 cup of this product with each gallon of warm suds. Rinse with clear, cold water. Drain dry.

**TO DEODORIZE AND SANITIZE GARBAGE CANS:** Wash out can; rinse. Pour in 3/4 cup of this product to each gallon of water; mix. Swab inside surfaces with this solution. Let stand 5 minutes. Rinse.

## ULTRA CLOROX® BRAND REGULAR BLEACH FOR DAIRY AND CREAMERY EQUIPMENT SANITATION (EPA Reg. No 5813-50)

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

An exposure period of at least 2 minutes to a solution of approximately 2 oz of this product to 4 gallons water (200 ppm available chlorine) 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 slow action. For each 18° F drop in temperature, approximately double the exposure time is needed to achieve equivalent bactericidal action with the same concentration. You can also compensate for lower temperatures by increasing the concentration of this product.

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

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

**To Sanitize - SOAKING METHOD:** After each milking, rinse cups and tubes with cold water. Brush thoroughly with detergent solution. Prepare sanitizing solution by thoroughly mixing 2 oz of this product with each 4 gallons water in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 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 bi-weekly. Old solution may be utilized in deodorizing and making floors and drains sanitary; for this purpose, add 1 oz of this product for each 5 gallons old solution; mix well.

**To Sanitize - RACK METHOD:** After each milking, rinse cups and tubes in cold water. Wash in detergent solution. Prepare sanitizing solution by thoroughly mixing 1 oz of this product with each 2 gallons water; 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 before using. Old solution may be utilized in deodorizing and making floors and drains sanitary.

**METAL TEAT CUPS AND TUBES** - Before each milking, prepare sanitizing solution by thoroughly mixing 1 oz this product with each 4 gallons water. Dip teat cups into this solution before transferring them from one cow to another.

**To Sanitize:** After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in solution prepared by thoroughly mixing 2 oz of this product with each 4 gallons water for 2 minutes; drain thoroughly. (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 this product to each 4 gallons of your regular detergent solution. Water temperature should be 100° F to 130° F. (DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.) Rinse equipment and utensils thoroughly with clean, clear water; drain. 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 this product with each 2 gallons of your regular detergent solution. Hot water should be used if available, and the temperature of the solution should be maintained at 120-160° F throughout the entire circulation. (DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.) Circulate the sanitizing solution through the system for 10 to 15 minutes. (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. 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 this product mixed with each 2 gallons of your regular detergent solution. Rinse with clean, clear water; drain thoroughly. Immediately before use, sanitize according to directions shown below.\*

**MILK BOTTLES** - To sanitize: Rinse and thoroughly wash; immerse for 5 minutes in solution prepared by thoroughly mixing 1 oz of this product with each 4 gallons cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach solution immediately before filling; drain thoroughly. Ordinarily, 12 gallons of this strength solution will sanitize 5000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

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

\*BEFORE USE -rinse with sanitizing solution prepared by thoroughly mixing 1 oz of this product with each 4 gallons of water; drain thoroughly.

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

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

Use chlorine test strips to adjust solution to desired strength.

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

This product - a positive, powerful 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

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### ULTRA CLOROX® BRAND REGULAR BLEACH 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 for spraying, in the proportion of one part of this product (6.0% sodium hypochlorite) to 9 parts of water. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to

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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.

### 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.

**CAUTION: 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 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.)

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 1.5ppm 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 (USDA\* Designation Q4)

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

### MEASUREMENT TABLE

Approximate dilution for 200 ppm available chlorine.  
Use chlorine test strips to adjust to exactly 200 ppm available chlorine

1 Tbsp	-to-	1 gallon water
5.5 oz	-to-	10 gallons water
1 qt 20 oz	-to-	100 gallons water
4 gallons	-to-	1000 gallons water

\* Authorized by USDA for use in federally inspected meat and poultry plants.

## ULTRA CLOROX® BRAND REGULAR BLEACH FOR POULTRY CARE

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** - Thoroughly mix 8 drops of this product with 1 gallon clean water for 50ppm available chlorine. Use in glass, plastic, porcelain or concrete containers daily. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, a solution made by thoroughly mixing 2 drops of this product with one gallon of water is satisfactory since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., a solution of 1 oz this product to each quart water 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 detergent and 3 oz of this product with each gallon of **hot\*** or cold water.
- (3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams.
- (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 detergent and 3 oz of this product thoroughly mixed with each gallon of **hot\*** or cold water. Rinse with clear, **cold** water. Let dry.

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

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For continuous washers, prepare washing solution as above. Add an additional 1/2 oz each of detergent and this product per 4 gallons water 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 1 oz of this product mixed with each 2 gallons of water.

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

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

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

**ULTRA CLOROX® BRAND REGULAR BLEACH (EPA Reg. No. 5813-50) FOR POTABLE WATER TREATMENT  
IN MEAT AND POULTRY PROCESSING PLANTS  
(USDA\* Designation G4)**

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

**MEASUREMENT TABLE**

Approximate amount of this product to make \_\_\_ ppm available chlorine

Water volume	< 5 ppm	25 ppm	50 ppm
1 gallon	~ 8 drops	40 drops	1 tsp
10 gallons	~ 1/2 tsp	1 oz	3 Tbsp
100 gallons	~ 1 oz	6.5 oz	13 oz
1000 gallons	~ 13 oz	2 Qt	1 Gal

Use Chlorine Test Strips to adjust to desired available chlorine level.

\*Authorized by USDA for use in federally inspected meat and poultry plants.

**ULTRA CLOROX® BRAND REGULAR BLEACH SANITATION IN CARE OF SWINE**

**HOG HOUSES AND FARROWING HOUSES - to cleanse and disinfect:**

- (1) Remove loose dirt, litter and debris. Dirty or coated surfaces cannot be sanitized.
- (2) Mix 1 oz detergent and 3 oz of this product with each gallon of hot\* or cold water until detergent is dissolved.
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

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**CLEAN AND DISINFECT METAL WATERING TROUGHS AND FEEDERS** by pressure-spraying or scrubbing with solution prepared by thoroughly mixing 1 oz detergent and 2 oz of this product with each gallon of hot\* or cold water. 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:** Thoroughly mix 8 drops of this product with 1 gallon clean water for 5ppm available chlorine. (Water containing suspended material is difficult to disinfect.)

**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.

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

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

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 (USDA\* Designation B1)

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.

\*Authorized by USDA for use in federally inspected meat and poultry plants.

#### ULTRA CLOROX® BRAND REGULAR BLEACH 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 (one part of this product to 250 parts water, or 1 tablespoon per gallon. 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 following use in official meat, poultry, rabbit or egg-processing establishments, 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.

#### 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

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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.

### DISINFECTION OF DRINKING WATER (POTABLE) (Emergency/Public/Individual Systems)

#### 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.

### 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.

### 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 a least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

### EMERGENCY DISINFECTION AFTER 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.

### ASPHALT OR WOOD ROOFS AND SIDINGS

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

### SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

#### A. Spas/Hot-Tubs

Using a dilution chart or formula, calculate and approximate an amount of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

1. **Maintaining the Water:** To maintain the water, apply the product solution over the surface to maintain a chlorine concentration of 5 ppm.
2. **After Each Use:** Shock treat to control odor and algae, using the product at a rate of 16 ounces to 500 gallons of water.
3. **Periods of Disuse:** During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.

#### B. HUBBARD AND IMMERSION TANKS

Before patient use, add product to maintain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to

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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.

## WATER DISINFECTION

### 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. 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.

### 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 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 for several times.

For cloudy water, use 16 drops 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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Crop/Site: Asparagus Seed treatment

Target Pest/Problem: To aid in the prevention of asparagus root rot (*Fusarium oxysporium* and *F. asparagi*)

Dosage: 1 pint plus 8 pints of water.

Dilution or Application Rate: Use 1 gallon of solution per pound of seed.

Method of Application: Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread and air dry.

Frequency/Timing of Applications: 1 application.

Preharvest Interval: Preplant treatment.

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

Crop/Site: Pepper Seed treatment.

Target Pest/Problem: To aid in the prevention of bacterial spot (*Xanthomonas vesicatoria*)

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Dosage: 2 pints plus 8 pints of water.

Dilution or Application Rate: Use 1 gallon of solution per pound of seed.

Method of Application: Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread to air dry.

Frequency/Timing of Application: 1 application.

Preharvest Interval: Preplant treatment.

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

Crop/Site: Tomato Seed treatment.

Target Pest/Problem: To aid in the control of bacterial canker (*Corynebacterium michiganense*) and tobacco mosaic virus (TMV).

Dosage: 2 pints plus 8 pints of water.

Dilution or Application Rate: Use 1 gallon solution per pound of seed.

Method of Application: Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread to air dry.

Frequency/Timing of Application: 1 application.

Preharvest Interval: Preplant treatment.

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

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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 -or- STATEMENT OF PRACTICAL TREATMENT:** **IF IN EYES:** rinse with plenty of water for 15 minutes. Get prompt medical attention. **IF SWALLOWED:** drink large amounts of water. DO NOT induce vomiting. Call a physician or poison control center immediately. **IF IN CONTACT WITH SKIN:** wash skin thoroughly with water.

**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.

**STORAGE AND DISPOSAL:** Store this product in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Small quantities of spilled or unusable product should be diluted with water before disposal in a sanitary sewer. Do not reuse empty container, but rinse and place in trash or recycle where facilities accept colored HDPE bottles. Do not contaminate water, food, or feed by storage, disposal or use of this product. Store away from children. Reclose cap tightly after each use.

### ENVIRONMENTAL COMMITMENT



- This product rapidly breaks down almost entirely to salt water.
- Safe for septic and waste water treatment systems.
- This bottle is coded for recyclers. Check to see if recycling facilities accept colored HDPE in your area.
- Contains no phosphorus.

### 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 and 180 ounce bottles only)  
Bottle shape is a registered trademark of the Clorox Company  
Questions or Comments?  
Call Toll Free (888) 797-7925 -or- (800) 227-1860

EPA Reg. No. 5813-50  
EPA Est. No. 5813-  
Batch Code Identifies Manufacturing Location

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CA-4  
PL-1  
DA-1  
IL-1  
MO-2  
OH-1  
PR-1  
TX-1

Batch  
code  
identifies  
manufacturing  
location.

