

PM 32 5813-50

10434

<div>US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460</div> <div>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</div>	EPA REGISTRATION NO. 5813-50	DATE OF ISSUANCE SEP 30 1996
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT Ultra Clorox Brand Regular Bleach	
	NAME AND ADDRESS OF REGISTRANT (Include ZIP code) Clorox Company c/o PS & RC P. O. Box Box 493 Pleasanton, CA 94566-0803	

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

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

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similiar products to submit such data.
2. Add the phrase, "EPA Registration No. 5813-50" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

Please note that in the label in the ingredient statement terms Active Ingredient and Inert Ingredients should be aligned to the same left hand margin.

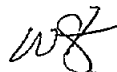
A stamped copy of the label is enclosed for your records.

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely yours,



Walter C. Francis
Acting Product Manager (32)
Antimicrobial Program Branch
Registration Division (7505C)

5813-LN
3 of 34

ULTRA CLOROX BRAND REGULAR BLEACH, EPA Reg. No. 5813-XX

Front Panel:

NEW

REMOVES/ELIMINATES ODORS

MORE BLEACHING POWER

REMOVES STAINS

DEODORIZES

DISINFECTS

KILLS GERMS

KILLS BACTERIA

SANITIZES

WHITENS

BLEACHES OUT TOUGH STAINS

WHITENS AND REMOVES STAINS

SAFE FOR MOST COLOR-FAST WASHABLES

ELIMINATES ODORS

BOOSTS COLD WATER CLEANING POWER

SAFE FOR MOST COLOR-FAST WASHABLES

DISINFECTS AND DEODORIZES BY KILLING MOST GERMS AND THEIR ODORS

ULTRA CLOROX BRAND REGULAR BLEACH FOR A CLEANER, FRESHER LAUNDRY
AND HOUSEHOLD

CONCENTRATED- Contains 25% More Laundry Uses than original/Regular Clorox Bleach
Use 3/4 Cup

GERMICIDAL/GERMICIDE

TUBERCULOCIDAL/TUBERCULOCIDE

FUNGICIDAL/FUNGICIDE

VIRUCIDAL/VIRUCIDE

New Ultra Clorox Brand Regular Bleach

- New Formula: Just 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.
- 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, 1/2 gallon, 1 quart) Original/Regular Clorox Bleach size.

Active Ingredient:

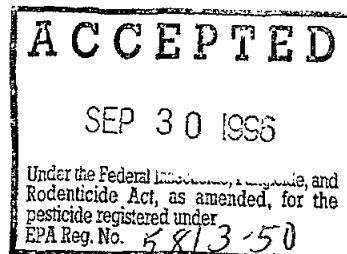
Sodium Hypochlorite 6.0%

Inert Ingredients: 94.0%

Total 100.0%

(Yields 5.7% available chlorine)

Contains no phosphorus



40434

KEEP OUT OF REACH OF CHILDREN

DANGER: See back panel for additional precautionary statements

Statement of Practical Treatment

IF IN EYES, rinse with plenty of water for at least 15 minutes. Get prompt medical attention.

Net Wt. 1.4 Gal (180 Fl Oz) 5.32 L

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ULTRA CLOROX BRAND REGULAR BLEACH , EPA Reg. No. 5813-XX

Back Panel:

NEW

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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 one drop of a solution made of 2 teaspoons Ultra Clorox Brand Regular Bleach/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 Ultra Clorox Brand Regular Bleach/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 Ultra Clorox Brand Regular Bleach/this product.

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 Ultra Clorox Brand Regular Bleach/this product to 1 gallon of cool water.

To disinfect or sanitize laundry, add 3/4 cup Ultra Clorox Brand Regular Bleach/this product to a standard size washer following the laundry use directions.

To kill bacteria [*Staphylococcus aureus* (staph) /*Klebsiella pneumoniae*], on clothing, add 3/4 cup Ultra Clorox Brand Regular Bleach/this product to a standard size washer following the laundry use directions.

To disinfect and deodorize diapers in pails, soak in 1/4 cup Ultra Clorox Brand Regular Bleach/this product for 5 minutes.

GENERAL HOUSEHOLD CLEANING:

DISINFECTING: Kills *Staphylococcus aureus* (staph), *Streptococcus pyogenes* (strep), *Salmonella choleraesuis* (salmonella), *Pseudomonas aeruginosa* (pseudomonas), Influenza A, 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), *Campylobacter jejuni*, *Listeria monocytogenes* (Listeria), *Escherichia coli* serotype (E. coli), *Legionella pneumophila* (legionella, the bacteria that causes Legionaire's disease), *Mycobacterium bovis* (tuberculosis).

Household Use Directions: Use 3/4 cup Ultra Clorox Brand Regular Bleach/this product per gallon of water. Wash, wipe, or rinse items with water, then apply cleaning 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, work surfaces, garbage disposals.

Bathroom: Bathtubs, urinals, faucets, showers, shower curtains, 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 Ultra Clorox Brand Regular Bleach (this product) into bowl. Brush entire bowl including rim with a scrub brush or mop; let stand 10 minutes before brushing again.

Potty Seats: Empty Seat. Fill with 3/4 cup Ultra Clorox Brand Regular Bleach/this product/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 Ultra Clorox Brand Regular Bleach/this product/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), 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 one tablespoon Ultra Clorox Brand Regular Bleach/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 cleaning solution. Let stand 2 minutes. Air dry.

Wooden cutting boards- Use approximately three tablespoons Ultra Clorox Brand Regular Bleach/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 cleaning solution. Let stand 2 minutes. Air dry.

Hand Sanitization- Use approximately 1/2 ounce Ultra Clorox Brand Regular Bleach/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.

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.

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.**

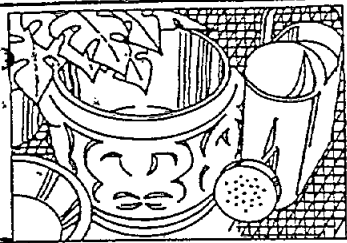
ENVIRONMENTAL COMMITMENT

- Ultra Clorox Brand Regular Bleach/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.

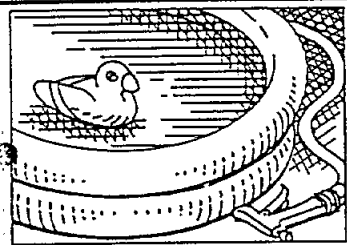
CLOROX CUSTOMER ASSISTANCE (800) 292-2200



HOUSEHOLD HINT

Clean Flower Pots and Planters

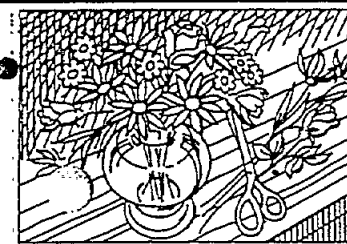
Cleaning flower containers helps prevent the transfer of molds and diseases from old plants to new ones. Wash and thoroughly rinse pots and planters. Soak 5 minutes in a solution of $\frac{1}{4}$ cup Regular Clorox liquid bleach to one gallon of water, then rinse.



HOUSEHOLD HINT

Keep Wading Pools Sanitary

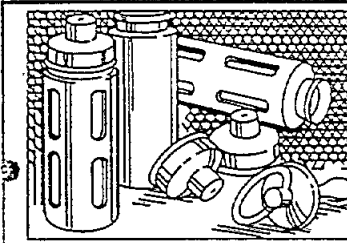
Regular Clorox Liquid Bleach is excellent for chlorinating wading pools. As a general rule, use $\frac{1}{4}$ cup per 100 gallons of water. For example, an 8-foot diameter pool holding 1 foot of water would require $\frac{1}{2}$ cup of Regular Clorox. To chlorinate, mix required amount of bleach with 2 gallons of water and scatter over surface of empty pool. Fill remainder of pool with water. Empty small pools daily.



HOUSEHOLD HINT

Keep Cut Flowers Fresh Longer

Fresh cut flowers will stay beautiful longer if you add $\frac{1}{4}$ teaspoon Regular Clorox Liquid Bleach to each quart of cold water. Clorox bleach can also be used to remove flower vase stains and odors. Wash the vase thoroughly and then fill with a solution of $\frac{1}{4}$ cup bleach to one gallon water. Let stand 5 minutes before rinsing.



HOUSEHOLD HINT

Sanitizing Baby Items

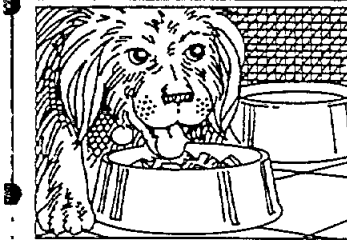
Baby bottles, nipples and dishes can be easily sanitized using Regular Clorox Liquid Bleach. Soak washed items for 1 minute in a solution of 1 tablespoon Regular Clorox per gallon of water. Pour solution through nipples; then drain dry.



HOUSEHOLD HINT

Sanitize and Remove Stains from Kitchenware

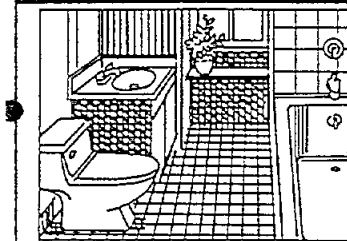
Tough stains can be removed from china, plastic and glassware with Regular Clorox Liquid Bleach. Plus, Clorox bleach sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 5 to 10 minutes in a solution of 1 tablespoon Regular Clorox to each gallon of water. Then drain and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



HOUSEHOLD HINT

Sanitize Pet's Food and Water Bowls

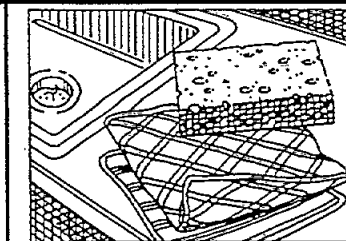
To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 1 tablespoon Regular Clorox bleach per gallon of water. Let stand 1 minute, drain and air dry.



HOUSEHOLD HINT

Cleaning Mold and Mildew

Mold and mildew in the bathroom can be removed easily and effectively using Clorox Liquid Bleach. Simply wipe down surfaces using a solution of $\frac{1}{4}$ cup Clorox bleach 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

Cleaning Kitchen Cloths

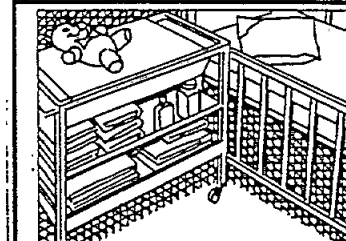
Clorox Liquid Bleach can help you deodorize and disinfect dishcloths and synthetic sponges while cleaning your sink at the same time. Fill sink with a gallon of water. Add $\frac{1}{4}$ cup Clorox bleach. Soak kitchen cloths in solution 5 minutes, then rinse sink and cloths. Allow to air dry.



HOUSEHOLD HINT

Removing Exterior Mold

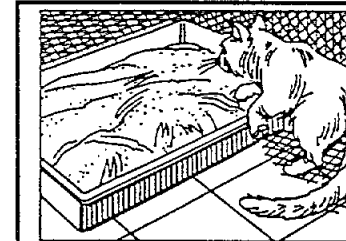
Mold growing on washable and colorfast exterior surfaces of your home, like siding, tile roofs, brick, stucco and patio stone, can be easily removed using Clorox Liquid Bleach. First, hose surfaces to remove loose soil. Then apply a solution of $\frac{1}{4}$ cup Clorox bleach per 1 gallon of water to 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

Cleaning Baby Furniture and Toys

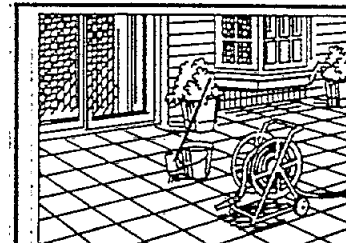
Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast toys are disinfected quickly and easily with Clorox Liquid Bleach. Plus, Clorox bleach kills 99.9% of all common household germs, including those that cause odors. Clorox leaves baby's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



HOUSEHOLD HINT

Deodorizing Cat's Litter Box

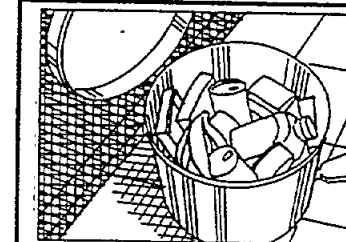
Unpleasant cat box odors can be eliminated when Clorox Liquid Bleach is used to kill odor-causing germs. Wash litter box with sudsy water. Then rinse with a solution of $\frac{1}{4}$ cup Clorox bleach per gallon of water. Let solution stand 5 minutes before rinsing thoroughly.



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 Clorox Liquid Bleach to remove moss and mildew stains by washing the area with a solution of $\frac{1}{4}$ cup Clorox bleach 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

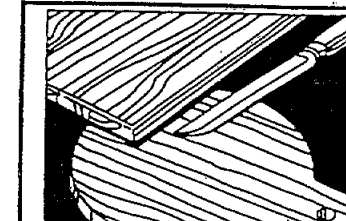
Clorox Liquid Bleach can deodorize and disinfect your garbage cans by eliminating the bacteria that cause odors. Wash garbage cans with soapy water and rinse. Then to deodorize and disinfect, swish a solution of $\frac{1}{4}$ cup Clorox bleach per gallon of water over the inside of the can. Let the solution stand 5 minutes before rinsing.



HOUSEHOLD HINT

Eliminating Refrigerator Odors

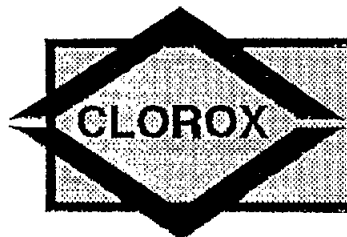
Clorox Liquid Bleach kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Wash surfaces with a solution of $\frac{1}{4}$ cup Clorox bleach per gallon of soapy water. Rinse and then air dry interior surfaces a few minutes before replacing food.



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 Regular Clorox bleach per 3 gallons of water. Keep surface wet for at least 2 minutes. Then drain and air dry.



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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach to each gallon of hot* or cold water; rinse thoroughly with clear, cold water; allow to drain dry. (A solution of 1 oz Ultra Clorox Brand Regular Bleach 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 DISINFECT ANIMALS' DRINKING WATER: Thoroughly mix ½ oz Ultra Clorox Brand Regular Bleach with 4 gallons clean water. Use in glass, plastic, porcelain or concrete containers daily. (See directions above.)

*For Ultra Clorox Brand Regular Bleach/detergent solution, use hot water if available.

MEASUREMENT TABLE: Approximate ppm (parts per million) Available Chlorine


1 oz Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 400 ppm
1/2 oz (1 tablespoon) Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 200 ppm
1 drop Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 2/3 ppm

Use chlorine test strips to adjust desired available chlorine level

THE CLOROX COMPANY
Consumer Services
Oakland, California 94612-1888

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SERVICE BULLETIN

**ULTRA CLOROX BRAND REGULAR BLEACH (EPA Reg. No. 5813-XX)
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.

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



SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH (EPA Reg. No. 5813-XX)
FOR POTABLE WATER TREATMENT

(USDA Designation G4)

Ultra Clorox Brand Regular Bleach may be used in processing water of meat and poultry plants at concentrations up to 5 ppm 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 (parts per million) 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 Ultra Clorox Brand Regular Bleach
to make ppm available chlorine


<u>Water volume</u>	<u><5 ppm</u>	<u>25 ppm</u>	<u>50 ppm</u>
1 gallon	< 8 drops	40 drops	1 tsp
10 gallons	< 1/2 tsp	1 oz	3 tsp
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

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

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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH (EPA Reg. No. 5813-XX) FOR LAUNDRY USE

(USDA Designation B1)

Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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.

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

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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH FOR SWIMMING POOL DISINFECTION

Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach a quality source of chlorine for water treatment in swimming and wading pools. Ultra Clorox Brand Regular Bleach is especially suitable for use in chlorinators as it is a liquid and has no insoluble particles. Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach.

<u>Swimming Pool Size in Gallons</u>	<u>Initial Dosage of Clorox Bleach</u>	<u>Swimming Pool Size in Gallons</u>	<u>Initial Dosage of Clorox Bleach</u>
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 7-½ gallons of water for each cubic foot of pool capacity. One quart of Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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

Ultra Clorox Brand Regular Bleach cannot be fed into the main water supply line, mix 1/2 pint of Ultra Clorox Brand Regular Bleach with 5 gallons of water and scatter over a portion of the pool surface; repeat until the required amount of Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach as needed to maintain 0.6 to 1.0 ppm available chlorine. One pint of Ultra Clorox Brand Regular Bleach per 6,000 gallons of water will supply approximately 1.0 ppm available chlorine. Frequency of application of this dosage will vary depending on number of people using the pool, weather conditions (sunlight exposure), and general cleanliness of the pool area. Chlorine level for acid-stabilized pools should be maintained at 1.0 - 1.5 ppm available chlorine.

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

The regular use of Ultra Clorox Brand Regular Bleach, 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 Ultra Clorox Brand Regular Bleach for a few treatments (2 quarts instead of 1 quart per 6,000 gallons of new water). This additional Ultra Clorox Brand Regular Bleach should be added to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 1/2 gallon of Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach; if such contact occurs, rinse immediately with water. When added as recommended, Ultra Clorox Brand Regular Bleach has no deleterious effect on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

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SERVICE BULLETIN

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. Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach. 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 Ultra Clorox Brand Regular Bleach. 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach with each 4 gallons of water; drain thoroughly.

IN CLEANING FLOORS (plastic or ceramic tile): Mix 3/4 cup Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach with each gallon of warm suds. Rinse with clear, cold water. Drain dry.

TO DEODORIZE AND DISINFECT GARBAGE CANS: Wash out can; rinse. Pour in 3/4 cup Ultra Clorox Brand Regular Bleach to each gallon of water; mix. Swab inside surfaces with this solution. Let stand 5 minutes. Rinse.

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SERVICE BULLETIN

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

Ultra Clorox Brand Regular Bleach is effective as a chemical sanitizer of milk utensils, containers and equipment. Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach to 4 gallons water (200 p.p.m. 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 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 Ultra Clorox Brand Regular Bleach.

It is important to clean out large deposits of milk or other organic matter before applying Ultra Clorox Brand Regular Bleach/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. Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 ½ oz Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach with each 4 gallons water for 2 minutes; drain thoroughly. (Metal cups should not be left in Ultra Clorox Brand Regular 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 Ultra Clorox Brand Regular Bleach to each 4 gallons of your regular detergent solution. Water temperature should be 100° F to 130° F. DO NOT MIX Ultra Clorox Brand Regular Bleach WITH ACID CLEANERS OR MILK STONE REMOVERS. Rinse equipment and utensils thoroughly with clean, clear water; drain. Immediately before use, sanitize according to directions at bottom of page.*

CLEANING IN PLACE - BULK STORAGE TANKS, DAIRY PIPELINES, TRANSFER STATIONS: Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 at bottom of page.*

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 Ultra Clorox Brand Regular Bleach mixed with each 2 gallons of your regular detergent solution. Rinse with clean, clear water; drain thoroughly. Immediately before use, sanitize according to directions at bottom of page.*

MILK BOTTLES - To sanitize, rinse and thoroughly wash; immerse for 5 minutes in solution prepared by thoroughly mixing 1 oz Ultra Clorox Brand Regular Bleach with each 4 gallons cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength Ultra Clorox Brand Regular 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach with each 4 gallons of water; drain thoroughly.

MEASUREMENT TABLE: Approximate P.P.M. (Parts Per Million Available Chlorine)

1 oz Ultra Clorox Brand Regular Bleach	- to One Gallon Water	= 400 ppm
½ oz (1 tablespoon) Ultra Clorox Brand Regular Bleach	- to One Gallon Water	= 200 ppm
1 drop Ultra Clorox Brand Regular Bleach	- to One Gallon Water	= 1/3 ppm

Use chlorine test strips to adjust solution to desired strength.

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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH DISINFECTING GUIDE (EPA Reg. No. 5813-XX)

Ultra Clorox Brand Regular Bleach - 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, 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 to come in contact with any fabric. (If 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 .

TABLE OF LIQUID MEASURES

1 Tablespoon = 3 teaspoons = 1/2 Ounce = 1/16 Cup
1 Cup = 16 Tablespoons = 8 Ounces = 1/2 Pint

For directions on sanitizing and disinfecting specific surfaces, write:

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SERVICE BULLETIN

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

Ultra Clorox Brand Regular Bleach is fungicidal to the Verticillium wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A Ultra Clorox Brand Regular Bleach solution 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 organism to uninfected soil or fields via seed potato surfaces.

Use Instructions

Thoroughly mix a solution for spraying, in the proportion of one part of Ultra Clorox Brand Regular Bleach (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 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 Ultra Clorox Brand Regular 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 Ultra Clorox Brand Regular Bleach or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of Ultra Clorox Brand Regular Bleach with skin. Wear safety glasses. If full strength or diluted Ultra Clorox Brand Regular 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 Ultra Clorox Brand Regular Bleach treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or the Ultra Clorox Brand Regular 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.

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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH FOR SWIMMING POOL DISINFECTION

Ultra Clorox Brand Regular Bleach - 6.0% sodium hypochlorite 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 Ultra Clorox Brand Regular Bleach is a liquid with no soluble particles, it is especially suitable for this use.

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

Between fillings of pool, add 1 tablespoon Ultra Clorox Brand Regular Bleach per 100 gallons of water each day. Empty small pools daily. (Ultra Clorox Brand Regular Bleach will not harm plastic pools.)

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

<u>Depth of Water</u>	<u>Pool Diameter</u>				
	<u>4 Ft.</u>	<u>6 Ft.</u>	<u>8 Ft.</u>	<u>10 Ft.</u>	<u>15 Ft.</u>
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	1/8 cup	3/4 cup	1-1/2 cups	2-1/4 cups	5 cups

TABLE OF LIQUID MEASURES:

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

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SERVICE BULLETIN

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

(USDA Designation Q4)

To sanitize food eggs: thoroughly clean all eggs. Completely mix 5 oz of Ultra Clorox Brand Institutional Bleach with 10 gallons of warm water to produce a 200 ppm (parts per million) available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before carrying or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

Measurement Table

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

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

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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH (EPA Reg. No 5813-XX) FOR HAND SANITIZING

(USDA Designation E3)

The hands must be washed and thoroughly rinsed before sanitizing. The hands need not be rinsed following the use of the sanitizing solution.

Hand sanitizing solutions are not a substitute for washing: accordingly, a Ultra Clorox Brand Regular Bleach sanitizing solution must be used only after thorough hand washing with soaps or detergents and water.

The effectiveness of any approved sanitizing solution shall be equal to or greater than that of 50 ppm (parts per million) of available chlorine.

To make a sanitizing solution follow the table shown below.
Prepare the solution daily.

Measurement Table

Approximate dilution for 50 ppm available chlorine

20 Drops RCB	-to-	one quart of water
1 Tsp RCB	-to-	one gallon of water
3 Tbsp RCB	-to-	ten gallons of water

Use chlorine test strips to adjust
to exactly 50 ppm available chlorine.

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CLOROX SERVICE BULLETIN

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 Ultra Clorox Brand Regular Bleach 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.

DRINKING WATER - To disinfect, thoroughly mix $\frac{1}{4}$ oz Ultra Clorox Brand Regular Bleach with each 4 gallons clean water. Use in glass, porcelain, stoneware or concrete containers; clean containers daily; rinse.

For young chicks, a solution made by thoroughly mixing 10 drops of Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach thoroughly mixed with each gallon of hot* or cold water. Rinse with clear, cold water. Let dry.

*Where Ultra Clorox Brand Regular Bleach/detergent solution is recommended for sanitizing poultry houses and equipment, use hot water (140° F or above) if available.

Ultra Clorox Brand Regular Bleach for Poultry Care (page 2 of 2)

TO SANITIZE FOOD EGGS: Thoroughly clean all eggs. Completely mix 5 oz of Ultra Clorox Brand Regular Bleach 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.

For continuous washers, prepare washing solution as above. Add an additional ½ oz each of detergent and Ultra Clorox Brand Regular Bleach per 4 gallons every 30 minutes. Dump wash tank and recharge every 2 hours. For manual method, soak eggs for only 1 to 2 minutes. Agitate basket. Make sure eggs are completely covered.

Air-dry eggs as rapidly as possible. Store in 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 Ultra Clorox Brand Regular Bleach mixed with each 2 gallons of water.

MEASUREMENT TABLE: Approximate ppm (Parts Per Million) Available Chlorine

1 oz Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 400 ppm
1/2 oz (1 Tbsp) Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 200 ppm
1 drop Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 2/3 ppm

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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH FOR MEAT & POULTRY PLANT PROCESSING WATER (EPA Reg. No. 5813-XX)

(USDA Designation G4)

Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand
Regular Bleach to make__ ppm available chlorine

<u>Water volume</u>	<u><5 ppm</u>	<u>25 ppm</u>	<u>50 ppm</u>
1 gallon	<8 drops	40 drops	1 tsp
10 gallons	1/2 tsp	1 oz	3 tsp
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.

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SERVICE BULLETIN

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 Ultra Clorox Brand Regular Bleach 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 using pigs.

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 Ultra Clorox Brand Regular Bleach 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 DISINFECT DRINKING WATER: Thoroughly mix ¼ oz Ultra Clorox Brand Regular Bleach with each 4 gallons of clean water. (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 Ultra Clorox Brand Regular Bleach/detergent solution, use hot water if available.


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

1 oz Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 400 ppm
½ oz (1 tablespoon) Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 200 ppm
1 drop Ultra Clorox Brand Regular Bleach	-to One Gallon Water	= 2/3 ppm

Use chlorine test strips to adjust
to desired available chlorine level

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SERVICE BULLETIN


**ULTRA CLOROX BRAND REGULAR BLEACH (EPA Reg. No. 5813-XX)
FOR MEAT & POULTRY PLANT LAUNDRY USE**

(USDA Designation B1)

Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach 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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SERVICE BULLETIN

ULTRA CLOROX BRAND REGULAR BLEACH FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS

Ultra Clorox Brand Regular Bleach 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 Ultra Clorox Brand Regular Bleach, 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 Ultra Clorox Brand Regular Bleach solution used for sanitizing should not exceed 200 ppm (parts per million) available chlorine (one part Ultra Clorox Brand Regular Bleach 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.

THE CLOROX COMPANY
Consumer Service Department
Oakland, California 94612-1888

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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 50ppm 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.

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

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.

EMERGENCY DISINFECTION AFTER FLOODS

Wells

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

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 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.

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 indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

Emergency Disinfection

When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the *clarified* contaminated water to a clean container and add 1 to 3 drops, (dependent on product strength) to 20 gallons of water. Allow the treated water to stand for 30 minutes. Properly treated water *should* have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times.

Crop/Site: Asparagus Seed treatment

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

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Dosage: 1 pint plus 8 pints water

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

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

Frequency/Timing of Applications: 1 application

Preharvest Interval: Preplant treatment

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

Crop/Site: Pepper Seed treatment

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

Dosage: 2 pints plus 8 pints of water

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 Applications: 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 mosaicvirus (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.

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

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EPA REG. NO. 5813-XX, EPA EST. NO. 5813 Batch code identifies manufacturing location.

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 (800) 227-1860.