

67619-8

4/7/2009

1/35

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



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

APR - 7 2009

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

**FILE COPY**

Subject: CPPC Ultra Bleach 2  
EPA Registration No. 67619-8  
Application Date: March 6, 2009  
Receipt Date: March 9, 2009

Dear Ms. Lawson:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c)9.

**Proposed Notification**

- To update label per PR-Notice 2007-4

**General Comments**

Based on a review of the material submitted, the following comment applies:

The notification application is acceptable and a copy has been inserted in your file for future reference.

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

Sincerely,

Wanda Y. Henson  
Product Reviewer (32)  
Regulatory Management  
Branch II Antimicrobials  
Division (7510P)

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number  
EL0182

Application for Pesticide - Section I

1. Company/Product Number 67619-8	2. EPA Product Manager Emily Mitchell	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CPPC Ultra Bleach 2	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. We submit revised labeling; see cover letter for more details.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name J. Evelyn Lawson	Title Senior Regulatory Information Scientist	Telephone No. (Include Area Code) (925) 425-6842
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature <i>J. Evelyn Lawson</i>	3. Title Senior Regulatory Information Scientist	
4. Typed Name J. Evelyn Lawson	5. Date March 6, 2009	

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NOTIFICATION  
Date Reviewed: 4/17/09  
Reviewed By: W. H. [signature]

Active Ingredient:  
Sodium Hypochlorite ..... 6.15%  
Other Ingredients ..... 93.85%  
Total: ..... 100.00%

(Yields 5.84% available chlorine)  
58,425 PPM [Parts Per Million] available chlorine  
Contains no phosphorus



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

**FIRST AID:**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **IN EITHER CASE, CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE.** Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

See back panel for additional precautionary labeling.

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

R0485-19

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## PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

### DANGER: CORROSIVE

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

#### FIRST AID:

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

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

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Call a poison control center or doctor immediately for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Clorox information Line: 1-888-797-7225

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

**PHYSICAL AND CHEMICAL HAZARDS:** Product contains a strong oxidizer. Always flush drains before and after use. **Do not use or mix with other 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.

**For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard. See Child Hazard Drowning Pictogram text below:**

**NOTICE:** CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.

**For containers greater than 5 gallons ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND DISPOSAL:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Nonrefillable container. Do not reuse or refill this container. [Triple rinse, then] [please] and offer empty container for recycling. If recycling is not available, recycle empty container or discard in trash. Do not contaminate water, food, or feed by storage, and disposal or use of this product.

#### For use with containers greater than 5 gallons:

**STORAGE AND DISPOSAL:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Refillable container. Refill container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. [Triple rinse, then] [please] recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

[Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

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### ENVIRONMENTAL COMMITMENT



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

### SATISFACTION GUARANTEED

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach [for over 75 years -or- *insert number* 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 cleaning questions.


Patent Des. 264,308 (for 48, 96 and 180 ounce bottles only)  
 Bottle shape is a registered trademark of the Clorox Company  
 Commercial Solutions is a registered trademark of Clorox Professional Products Company.  
 Clorox is a registered trademark of The Clorox Company.  
 Visit us at [www.cloroxprofessional.com](http://www.cloroxprofessional.com)  
 For MSDS information please go to [www.cloroxprofessional.com](http://www.cloroxprofessional.com)  
 Questions or Comments? Call [Toll Free] (888) 797-7925 -or- (800) 227-1860

### NSF REGISTRATION



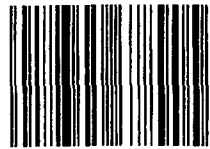
- Category Code D2
- NSF Registration Number: 122438

No. 112843  
 Product Categories: 3D, B1, B2, D1, D2, G4, Q4  
**PRODUCT CATEGORY DEFINITION:**  
 3D-Substances for washing fruits and vegetables  
 B1-Laundry products – food contact  
 B2-Laundry products – nonfood contact  
 D1-Antimicrobial agents always requiring a rinse  
 D2-Antimicrobial agents not requiring rinse  
 G4-Chlorine products  
 Q4-Chlorine sanitizers

 This product has been tested and Certified by the Water Quality Association against NSF/ANSI 60 for materials safety only

EPA Est. No. 5813-	
CA-2	-
CA-3	-
CA-4	-
CA-5	-
FL-1	-
GA-1	-
IL-1	-
MD-2	-
PR-1	-
TX-1	-
Batch code identifies manufacturing location.	

Mfd. for & © 1994  
 Clorox Professional Products Company  
 1221 Broadway, Oakland, CA 94612  
 Made in the U.S.A.



EPA Reg. No. 67619-8  
 EPA Est. No. 5813-  
 Batch Code Identifies Manufacturing Location

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for front or back:

- Bacteria -and/or- virus -and/or- germ fighting [formula]
- Bactericidal/Bactericide
- [Best] Family size -or- pack
- [Best] Giant size -or- pack
- [Best] King size -or- pack
- [Best] Super -sized -or- pack
- [Best] Value size -or- pack
- Better Smell
- Bigger value pack
- Bleaches Out Tough Stains
- Boosts Cold Water Cleaning Power
- Cleans
- Cleans [and disinfects]
- Clean[s] -and/or- disinfect[s] [the] [your] ***list any use site*** [against] [from] [99.9% of] [household] germs -and/or- bacteria -and/or- virus[es] [this season]
- Clean[s] away -and/or- kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- destroy[s] -and/or- remove[s] -and/or- wipe[s] away -or- out -and/or- attack[s] -and/or- get[s] rid of [99.9% of] [the] bacteria -and/or- germs -and/or- virus[es] ***list any use site*** [commonly found in -or- on] the surfaces your kids -and/or- pets touch every day
- Clorox Bleach goes Ultra
- Concentrated Formula for Unbeatable Whitening
- Contains Two 1.41 Gallon (180oz) Bottles. Net 2.82 Gallons (360oz).
- Deodorizes
- Disinfects
- Disinfects and Deodorizes by Killing [Most] Germs and Their Odors
- DO NOT use this product full-strength for cleaning surfaces. Always dilute strictly in accordance with label directions.
- Easier to handle, pour and store [than original Clorox Bleach]
- Eliminates Odors
- Especially recommended for Food Service Applications
- Extra Value Pack
- Fight[s] -and/or- kill[s] -and/or- effective against [99.9% of] [Salmonella choleraesuis] -or- Salmonella enterica [(Salmonella)]
- Fight[s] -and/or- kill[s] -and/or- effective against [99.9% of] Escherichia coli [(E. coli)]
- Fight[s] -and/or- kill[s] -and/or- effective against Avian flu [virus] [on environmental -and/or- hard, nonporous surfaces]
- Fight[s] -and/or- kill[s] -and/or- effective against cold -and/or- flu [virus(es)]
- Fight[s] -and/or- kill[s] -and/or- effective against [Human] Hepatitis A [Virus] [(HAV)]
- Fight[s] -and/or- stop[s] -and/or- prevent[s] -and/or- reduce[s] the spread of [99.9% of] [illness-causing] bacteria -and/or- viruses -and/or- germs on hard, nonporous surfaces [in your ***list any use site***] [this cold -and/or- flu season]
- For institutional use [only]
- For use in High-Efficiency washing machines
- Free measuring cup inside with this purchase of this product
- Fungicidal/Fungicide
- Germicidal/Germicide
- Just 3/4 cup provides the same whitening and cleaning benefit as 1 cup of original Regular Clorox Bleach
- Just as safe on bleachable fabrics as before.
- Kills -and/or- eliminates -and/or- wipes out laundry soils -and/or- germs
- Kills Bacteria
- Kills Bacteria, Viruses †, Mold and Mildew
- Kills Germs
- Kills Viruses that cause Colds and the Flu such as Rhinovirus and Influenza A[(Influenza A2)]
- Low Odor -or- Better Odor
- Mildewcidal/Mildewcide
- More Bleaching Power
- More concentrated [than original Clorox Bleach]
- More concentrated -or- higher concentration
- More value [than original Clorox Bleach]
- Not for [individual] resale
- Now 16 more wash loads [than original Clorox Bleach]
- New 64 instead of 48 wash loads [compared to original Clorox Bleach]
- Ounce for Ounce ***insert number%*** More Loads than Non-Ultra Bleach
- Pseudomonacidal
- Removes [Tough] Stains
- Removes/Eliminates Odors
- Removing -and/or- Killing -and/or- Fighting -and/or- Eliminating germs -and/or- bacteria -and/or- virus[es] since 1913 -or- for [nearly] ***insert number*** years
- Safe For Most Color-Fast Washables
- Sanitizes
- Sanitize[s] -and/or- disinfect[s] your clothes -and/or- laundry
- Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)
- Smaller bottle is easier to handle, pour and store [than original Clorox Bleach]
- Smaller is better
- Staphylocidal
- Streptocidal
- [Still -or- when used as Directed] safe for all your bleachable wash loads
- Super Value Pack
- 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 -or- Regular Clorox Bleach size
- This Product for a Cleaner, Fresher, Laundry
- This product gets even your dirtiest clothes white.
- [This product] [has] the power -and/or- effectiveness of Clorox® to clean and disinfect
- Try Clorox 2 [- the Clorox bleach for colors]
- Try Dry Clorox Bleach [for White Laundry]
- Tuberculocidal/Tuberculocide
- [Ultra] Improved -or- Advanced whitening [Power -or- Formula]
- Unbeatable whitening
- Use in public -or- common places where [bacteria -and/or- viruses -and/or- germs may be of concern] [you are concerned about bacteria -and/or- viruses -and/or- germs] [on hard, nonporous surfaces]
- Virucidal/Virucide
- [Visit -or- Check [out] [our website at]] [www.cloroxprofessional.com](http://www.cloroxprofessional.com) [for more information] [on Clorox®]
- When can I use this product? For the cleanest, whitest whites, use this product in every bleachable load. Most white fabrics and some colored fabrics can be safely washed with this product.
- White just got Whiter
- Whitens [and Removes Stains]
- Whitens Bleachable Fabrics
- Whitens whites



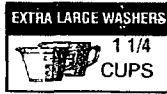
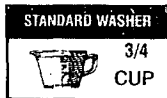
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**DIRECTIONS FOR USE:**

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

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

**LAUNDRY USE:**STANDARD WASHER-3/4 CUP  
EXTRA LARGE WASHER-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 -or- 1 1/4 cups 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

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 1 cup of this product to a standard size washer following the laundry use directions. Use 1 1/4 cups for extra large heavily soiled loads. Use a detergent. This product used according to directions is effective against ***Bacteria listed in Laundry Use Organism Table.*** Do not use full strength to pretreat.

**To Disinfect and Deodorize Diapers:** In pails, soak in 1/4 cup of this product to 1 gallon of water for 5 minutes.

**Laundry Use Organism Table****Laundry****Bacteria**

*Klebsiella pneumoniae* [ATCC 4352]  
*Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442]  
*Staphylococcus aureus* [(Staph)] [ATCC 6538]

**Fungus**

*Trichophyton mentagrophytes* [(Athlete's Foot Fungus)] [ATCC 9533]  
[CDC No. WO-0031]

**Viruses Enveloped**

Influenza A [Influenza A2] [Flu Virus] [(Strain Hong Kong)]  
[[representative of] the common flu virus] [ATCC VR-544]

**Viruses Non-Enveloped**

[Human] Hepatitis A [Virus] [(HAV)] [Strain HM-175]  
Rhinovirus [type 37] [ATCC VR-1147]  
[[Leading causative agent of] the common cold]  
Rotavirus [(Strain WA)] [(the virus that] causes diarrhea)] [ATCC VR-2018]

**DIRECTIONS FOR USE:****GENERAL USE:**

This product, when used as directed [below], is effective against the following [organisms]:

**[For] Disinfecting Against Bacteria -or- To Disinfect Against Bacteria -or- Bactericidal Efficacy:** Use 2/3 cup of this product per gallon of water. [First] Clean surface by removing gross filth [loose dirt, debris, food materials etc.] Wash, wipe, or rinse items with water, then apply disinfection -or- bleach solution. Let stand 2 minutes. Rinse thoroughly and air dry. Disinfects against: ***Bacteria listed in General Use Organism Table.***

**[For] Killing Fungi -or- To Kill Fungi -or- Fungicidal Efficacy:** Use 2/3 cup of this product per gallon of water. Wash, wipe, or rinse items with water, then apply disinfection -or- bleach solution. Let stand 2 minutes. Rinse thoroughly and air dry. Heavily soiled surfaces must be pre-cleaned prior to disinfection. Kills: ***Mold, Mildew, Fungi, listed in General Use Organism Table.***

**[For] Killing Viruses -or- To Kill Viruses -or- Virucidal Efficacy:** Use 2/3 cup of this product per gallon of water. Wash, wipe, or rinse items with water, then apply disinfection -or- bleach solution. Let stand 5 minutes. Rinse thoroughly and air dry. Heavily soiled surfaces must be pre-cleaned prior to disinfection. Kills: ***Viruses listed in General Use Organism Table.***

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**DIRECTIONS FOR USE continued:**  
**GENERAL USE:**

Special Label Instructions for Cleaning Prior to Disinfection against *Clostridium difficile* endospores

**Personal Protection:** Wear appropriate barrier protection such as gloves, gowns, masks or eye covering.

**Cleaning Procedure:** Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection with application with clean cloth, mop, and/or sponge saturated with product intended for disinfection. Cleaning should include vigorous wiping and/or scrubbing, until visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms should be cleaned in an appropriate manner, with restrooms and other 'dirty' areas cleaned last. Do not reuse soiled cloths.

**Infectious Materials Disposal:** Cleaning materials used that may contain feces/wastes should be disposed of immediately in accordance with local regulations for infectious materials disposal.

**[For] Killing *Clostridium difficile* [spore]:** Use 1 part bleach to 9 parts water to achieve a 1:10 dilution (~5000 ppm available chlorine) before use. Clean hard, nonporous surfaces by removing gross filth [loose dirt, debris, blood/bodily fluids, etc.]. Apply 1:10 solution and let stand for 10 minutes. Rinse and air dry. Prepare fresh solution daily. [Avoid contact with surfaces that may be damaged by bleach.] Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

**[For] Killing Human Immunodeficiency virus type 1 (HIV-1, Associated with AIDS) -or- To Kill Human Immunodeficiency virus type 1 (HIV-1, Associated with AIDS),** let stand 2 minutes.

**[For] Killing Canine parvovirus and Feline parvovirus -or- To Kill Canine parvovirus and Feline parvovirus,** let stand 10 minutes.

**[For] Killing TB -or- To Kill TB -or- Tuberculocidal Efficacy:** Use 1 1/2 cup of this product per gallon of water. Wash, wipe, or rinse with water, then apply disinfection -or- bleach solution. Let stand 5 minutes. Rinse thoroughly and air dry. Heavily soiled surfaces must be pre-cleaned prior to disinfection. [Kills *Mycobacterium bovis* [(Tuberculosis)]]].

**[For] Sanitizing Against [Food-Contact] Bacteria -or- Sanitize against [Food-Contact] bacteria -or- [FOR] SANITIZING:**

**Food Contact Surfaces:** refrigerators, freezers, plastic cutting boards, stainless cutlery, dishes, glassware, counter tops, pots and pans, stainless utensils - Use approximately one 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 1 minute. Air dry.

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

**Food-Contact Surface Bacteria listed in General Use Organism Table.**

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

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

**General Use Organism Table**

**General Use**

**Bacteria**

*Acinetobacter baumannii* [ATCC 15308]\*  
*Clostridium difficile* [spore] [C.diff] [ATCC 43598]\*\*  
Community Acquired Methicillin resistant  
*Staphylococcus aureus* [CA-MRSA] [NARSA NRS123][Genotype USA 400]  
Community Acquired Methicillin resistant  
*Staphylococcus aureus* [CA-MRSA] [NARSA NRS384][Genotype USA 300]  
*Escherichia coli* with ESBL (Extended Spectrum Beta Lactamase) resistance [ATCC BAA-196]  
*Escherichia coli* O157:H7 [(E. coli)] [ATCC 35150]\*  
*Legionella pneumophila* [(Legionella)] [(the bacteria that causes Legionnaire's disease)] [ATCC 33153]\*  
Methicillin resistant *Staphylococcus aureus* [(MRSA)] [ATCC 33592]\*  
*Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442]\*  
*Salmonella enterica* -or- [*Salmonella choleraesuis*] [(Salmonella)] [ATCC 10708]\*  
*Shigella dysenteriae* [(Shigella)] [ATCC 13313]\*  
*Staphylococcus aureus* [(Staph)] [ATCC 6538]\*  
*Streptococcus pneumoniae* [(Strep)] [ATCC 6305]\*  
*Streptococcus pyogenes* [(Strep)] [ATCC 9342]\*  
Vancomycin resistant *Enterococcus faecalis* [(VRE)] [ATCC 51299]\*

**Mold, Mildew, Fungi**

*Candida albicans* [ATCC 10231]\*  
*Aspergillus niger* [(mold -and/or- mildew)] [ATCC 6275]\*  
*Trichophyton mentagrophytes* [(Athlete's Foot Fungus)] [ATCC 9533] [CDC No. WO-0031]\*

**Paroviruses Non-Enveloped**

Canine parvovirus [ATCC VR-953]\*\*  
Feline parvovirus [(Feline panleukopenia virus)] [ATCC VR-648]\*\*

**Mycobacterium**

*Mycobacterium bovis* [(BCG)] [(Tuberculosis -or- TB)] [ATCC 35743] [TMC 102]\*\*

**Viruses Enveloped**

Avian Influenza A [Virus] [Avian Flu] [ATCC VR-2072]\*\*  
Cytomegalovirus [ATCC VR-578] [(AD-169)]\*\*  
Herpes simplex virus type 2 -or- [Human] Herpesvirus type 2 [ATCC VR-734] [(Strain G)]\*\*  
[causative agent of genital herpes]  
Human Coronavirus [(Strain 229E)] [(additional causative agent of common cold)] [ATCC VR-740]\*\*  
[Human] Hepatitis B [Virus] [(as duck HBV)] [(HBV)] [Strain DHBV16]\*\*  
[Human] Hepatitis C [Virus] [(as bovine viral diarrhea virus)] [(HCV)] [ATCC VR-1422]\*\*  
Human Immunodeficiency Virus Type 1 [(RF Strain)] [HIV-1] [Type 1] [HIV-1 Associated with AIDS]\*\*  
Influenza A [Influenza A2] [Flu Virus] [(Strain Hong Kong)] [(representative of) the common flu virus] [ATCC VR-544]\*\*  
Parainfluenza [type 1] [(Strain Sendai)] [ATCC VR-907]\*\*  
Respiratory syncytial virus [(RSV)] [ATCC VR-26]\*\*  
[(Strain Long)] [(cause of respiratory infections in infants)]  
Rubella virus [(German Measles virus)] [ATCC VR-315]\*\*  
Varicella Zoster Virus [ATCC VR-586]\*\*

**Viruses Non-Enveloped**

Adenovirus [type 2] [ATCC VR-846]\*\* [(Strain adenoid 6)] [(common cause of respiratory infections)]  
[Human] Hepatitis Type A [Virus] [(HAV)] [ATCC VR-2093]\*\* [(Strain HM-175)]  
Norwalk Virus -or- Norovirus [(as Feline Calicivirus)] [ATCC VR-782]\*\*  
Rhinovirus [type 17] [ATCC VR-1147]\*\* [(Leading causative agent of) the common cold]  
Rotavirus [(Strain WA)] [ATCC VR-2018]\*\* [(the virus that) causes diarrhea]

**Bloodborne Pathogens**

[Human] Hepatitis B [Virus] [(as duck HBV)] [(HBV)] [Strain DHBV16]\*\*  
[Human] Hepatitis C [Virus] [(as bovine viral diarrhea virus)] [(HCV)] [ATCC VR-1422]\*\*  
Human Immunodeficiency Virus Type 1\* [(RF Strain)] [HIV] [Type 1] [(HIV-1)] [when used as directed] [for spray application]

**Food-Contact Surface Bacteria**

*Campylobacter jejuni* [ATCC 29428]\*  
*Escherichia coli* O157:H7 [(E. coli)] [ATCC 35150]\*  
*Listeria monocytogenes* [(Listeria)] [ATCC 19111]\*

\* 30 sec  
\*\* 2 min  
\*\*\* 5 min  
\*\*\*\* 10 min



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**DIRECTIONS FOR USE continued:**  
**GENERAL USE: Use Sites/Surfaces**

**USE SITES/SURFACES:**

**Kitchen:** Refrigerators, work surfaces, garbage disposals, freezers, sinks, appliances, plastic laminate, stoves, stovetops, countertops, [glazed 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 -or- Restroom:** Bathtubs, urinals, faucets, showers, shower curtains, shower walls,

shower doors, potty seats, sinks, countertops, glazed porcelain, floors, vinyl, tile, 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.

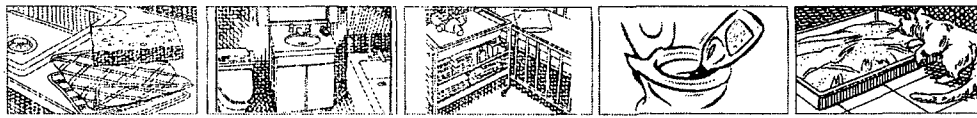
**Toilet Bowls and/or Bidets:** Flush toilet/bidet. Pour 2/3 cup of this product into bowl. Brush entire bowl including rim with a scrub brush or mop; let stand 2 minutes before flushing again.

**Potty Seats:** Empty Seat. Fill with 2/3 cup of this product per gallon of water. Let stand 2 minutes. Rinse with clean water. [Let dry.]

**Litter Boxes:** Remove litter. Wash box in soap/water. Fill with 2/3 cup of this product per gallon of water. Let stand 2 minutes. Rinse with clean water. [Let dry.]

NSF Category Code:  
 D1-Antimicrobial agents  
 always requiring a rinse

**GENERAL USE: Graphics**



**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, preclean surface before disinfecting.

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

**Disinfects: -or- Effective disinfectant and deodorizer for: -or- Excellent for controlling mold and mildew on: -or- Excellent for: -or- [For] use on: -or- Effective on:**  
 Hard, Nonporous Surfaces Such As:

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

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


Ambulances  
Automobiles  
Basements  
Bathrooms  
Boats  
Bowling Alleys  
Butcher Shops  
Cafeterias  
Campers  
Cars  
Churches  
Day Care Centers

Dorms  
Food Processing Plants  
Garages  
Germ-prone Surfaces  
Grocery Stores  
Gymnasiums  
Health Clubs  
Homes  
Hotels  
Institutional Kitchens  
[Institutional] Laundromats  
Institutions


Kitchens  
Laboratories  
Military Installations  
Mobile Homes  
Motels  
Nurseries  
Offices  
Pharmacies  
Play Areas  
Playgrounds  
Public Facilities  
Public Telephone[s] [Booths]

Recreational [Centers] [Facilities]  
Restaurants  
Restrooms  
School Buses  
Schools  
Shelters  
Supermarkets  
Vacation Homes  
Warehouse Clubs


**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 2 minutes in a solution of  $\frac{2}{3}$  cup of this product to one gallon of water, then rinse.




**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.




**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.



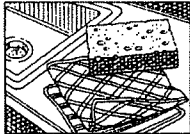
**Cleaning Mold and Mildew**  
Mold and mildew in the bathroom can be removed easily and effectively using this product. Simply wipe down surfaces using a solution of  $\frac{2}{3}$  cup of this product to each gallon of warm water. Keep surface wet [at least] 2 minutes; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces.



**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  $\frac{2}{3}$  cup of this product to one gallon water. Let stand 2 minutes before rinsing.



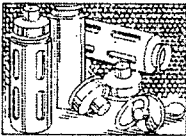
**Sanitizing Kitchen Cloths**  
This product can help you deodorize and sanitize dishcloths and synthetic sponges while cleaning your sink at the same time. Fill sink with a gallon of water. Add  $\frac{2}{3}$  cup of this product. Soak kitchen cloths in solution for [at least] 2 minutes, then rinse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




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**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.



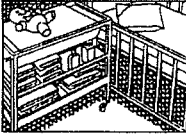
**Removing Exterior Mold**  
 Mold [growing] on washable and colorfast exterior surfaces of your home, tile siding, tile roofs, brick, stucco and patio stone can be easily removed using this product. First, hose surfaces to remove loose soil. Then apply a solution of 2/3 cup of this product per 1 gallon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



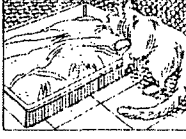
**Sanitize and Remove Stains from Kitchenware**  
 Tough stains can be removed from china, dinnerware, dishes, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 1 minute in a solution of 1 Tablespoon of this product to each gallon of water. Then drain and air dry.




**Disinfecting Baby Furniture and Toys**  
 Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast toys are disinfected quickly and easily with this product. Plus, this product kills 99.9% of all common germs, including those that cause odors. This product leaves baby's room clean and fresh smelling. Disinfect with a solution of 2/3 cup of this product in one gallon of water. Let solution stand for at least [2 minutes] -and/or- [5 minutes to kill viruses]. Rinse and allow to [air] dry.



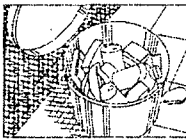
**Deodorizing Cat's Litter Box**  
 Unpleasant cat box odors can be eliminated when this product is used to kill odor-causing germs. Wash litter box with sudsy water. Then rinse with a solution of 2/3 cup of this product per gallon of water. Let solution stand 2 minutes before rinsing thoroughly.




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



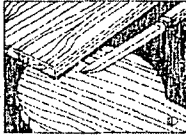
**Eliminating Garbage Can Odors**  
 This product can deodorize and sanitize our garbage cans by eliminating the bacteria that cause odors. Wash garbage cans with soapy water and rinse. Then to deodorize and sanitize, swish a solution of 2/3 cup of this product per gallon of water over the inside of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



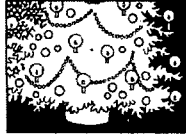
**Eliminating Refrigerator Odors**  
 This product kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Wash surfaces with a solution of 2/3 cup of this product per gallon of soapy water. Let stand 2 minutes. Rinse and then air dry interior surfaces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




**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.



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

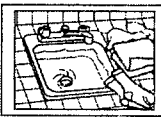


**[Directions for ]Recharging the Antimicrobial Power of Products Treated with [Clorox] HaloShield™**



This product can recharge the antimicrobial power of products treated with [Clorox] HaloShield™, a patented textile treatment that harnesses the germ killing power of chlorine bleach.

**[In the ]Washer -or- Washing Machine:**  
 Wash regularly in a laundry load with 2/3 cup of this product. Follow laundry use directions.



**[In the ]Sink:**  
 Fill sink with a gallon of water. Add 2/3 cup of this product. Soak cloths in solution for [at least] 5 minutes, then rinse sink and cloths. Allow to air dry.

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## CPPC ULTRA BLEACH 2 For a cleaner, fresher laundry

This product, a germicide -and/or- broad spectrum disinfectant, is a 6.15% sodium hypochlorite solution containing 5.84% available chlorine by weight. This product can be used on hard nonporous surfaces in homes, hospitals, commercial, institutional, and eating establishments, pet kennels, and veterinary premises.

- Whitens, and removes stains -or- • Brightens whites and removes stains • Safe for most color-fast washables
- Boosts cold water cleaning power • Disinfects and deodorizes by killing most odor-causing germs and their odors. • Whitens bleachable fabrics • Removes [Tough] Stains
- Cleans • Recharges the antimicrobial power of [Clorox] Haloshield™ products -or- products treated with [Clorox] Haloshield™

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>			
<b>Work Surfaces</b>			
	1 Tbsp (1/2 oz.)	1 Gallon	Wash, rinse, wipe surface area with bleach solution for at least 1 minute, let air dry.
<b>Dishes, Glassware, Utensils</b>			
	1 Tbsp (1/2 oz.)	1 Gallon	Wash and rinse. After washing, soak for at least 1 minute in bleach solution, drain and air dry.
<b>Refrigerators, Freezers</b>			
	1 Tbsp (1/2 oz.)	1 Gallon	Wash, rinse, wipe surface area with bleach solution for at least 1 minute, let air dry.
<b>Garbage Cans</b>			
	2/3 Cup	1 Gallon	After washing and rinsing, brush inside with bleach solution. Let drain.
<b>Sponges, Dishcloths, Rags, Mops, Brushes &amp; Brooms</b>			
	2/3 Cup	1 Gallon	Pre-wash items, then soak them in bleach solution for at least 2 minutes. Rinse well and air dry.
<b>FOR DISINFECTING</b>			
<b>Floors &amp; Walls</b>			
	2/3 Cup	1 Gallon	Pre-wash surface, mop or wipe with bleach solution. Allow solution to contact surface for at least 2 minutes. Rinse well and air dry.
<b>Bathtubs &amp; Showers</b>			
	2/3 Cup	1 Gallon	Pre-wash surface [and] wipe with bleach solution. Allow solution to contact surface for at least 2 minutes. Rinse well and air dry.
<b>Laundry</b>			
	1 Cup (8 oz.)	Standard Washer	Use 1 1/4 cups bleach for extra large washers. Use a detergent.
<b>Toilet Bowl</b>			
	2/3 Cup	Toilet Bowl	Flush toilet. Pour this product into bowl. Brush entire bowl including under rim. Let stand 2 minutes before flushing.
<b>FOR DEODORIZING</b>			
<b>Garbage Cans</b>			
	2/3 Cup	1 Gallon	After washing and rinsing, brush inside with bleach solution. Let drain.
<b>Drains</b>			
	1 Cup (8 oz.)	—	Flush drains. Pour into drain. Flush with hot water.
<b>FOR BLEACHING/WHITENING</b>			
<b>Wooden Surfaces</b>			
	2/3 Cup	1 Gallon	Apply for [at least] 2 minutes, rinse.
<b>FOR MOLD, MILDEW &amp; STAIN REMOVAL</b>			
<b>All Surfaces</b>			
	2/3 Cup	1 Gallon	Add bleach to [powdered] detergent solution. Apply, let stand for at least 2 minutes. Wipe and rinse.

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## How to Sanitize and Disinfect with CPPC Ultra Bleach 2

This product is an effective multi-purpose sanitizer/disinfectant that kills bacteria that may cause food poisoning.  
 \* This product is acceptable as a sanitizer for all surfaces not always requiring a rinse (D2) in and around food processing areas.

### To Sanitize

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

WASH      RINSE      **DIP 1 MINUTE\***      DRAIN DRY

---

#### Food Contact Surfaces

CLEAN AND RINSE      **1 1/2 oz (3 Tbsp) THIS PRODUCT**      **3 GALLONS WATER**      RINSE      **1 MINUTE**      AIR DRY

---

#### Food Equipment

CLEAN AND RINSE      **1/2 cup (3 Tbsp) THIS PRODUCT**      **3 GALLONS WATER**      Wipe with sanitizing solution      AIR DRY      **1 MINUTE**

---

#### Refrigerators & Freezers

WASH      **1/2 cup (3 Tbsp) THIS PRODUCT**      **3 GALLONS WATER**      Wipe with sanitizing solution      AIR DRY      **1 MINUTE**

---

#### Mops, Brushes, Rags

5 GALLON SINK      **1 cup (2 oz) THIS PRODUCT**      **2 GALLONS WATER**      **2 MINUTES**      RINSE      AIR DRY

### To Disinfect

#### Floors & Walls

PRE-WASH SURFACE TO BE TREATED      **2 CUPS (16 oz) THIS PRODUCT**      **3 GALLONS WARM WATER**      MOP FOR 2 MINUTES      RINSE & LET DRY

---

#### Toilets

FLUSH      **1/2 CUP THIS PRODUCT**      BRUSH      SOAK 2 MINUTES      FLUSH

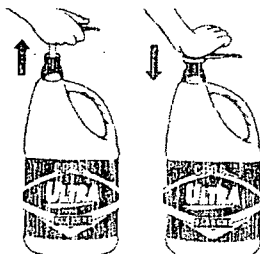
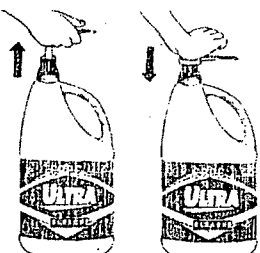
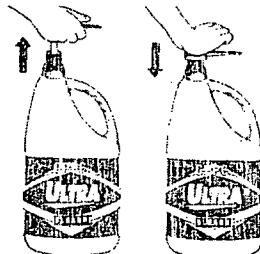
For additional information regarding Clorox training tools and dispensing systems, please call 1-888-797-7225 -or \_\_\_\_\_

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## How to Sanitize and Disinfect with CPPC Ultra Bleach 2

1 pump = 23 mL (0.78 oz)

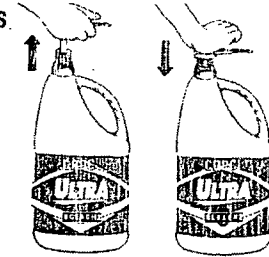
APPLICATIONS	AMOUNT	INSTRUCTIONS
<p><b>Sanitizing in the sink</b></p>	<p>Bleach 5 Pumps</p> <p>Water 10 Gallons</p>	<ul style="list-style-type: none"> <li>• Add 5 pumps of this solution to 10 gallons of 65-75° F (room temperature) water in the sanitizing sink compartment</li> <li>• Check chlorine concentration with standard test strip <b>Concentration should not exceed 200 ppm of available chlorine</b></li> <li>• Wash and rinse</li> <li>• Soak pots/pans/serving trays/utensils and food equipment for at least 1 minute in a solution of this product</li> <li>• Drain &amp; air dry</li> </ul>
	 <p>Lift up pump. Push down to dispense.</p>	
<p><b>Wipe Cloths</b></p>	<p>Bleach 2 Pumps</p> <p>Water 4 Gallons</p>	<ul style="list-style-type: none"> <li>• Wash wipe cloths prior to sanitizing in a solution of this product for at least 5 minutes</li> <li>• <b>Store wipe cloths in bleach solution when not in use</b></li> <li>• Fill 4 gallon dispenser with 65-75° F (room temperature) water</li> <li>• Add 2 pumps of this product</li> <li>• Draw a solution of this product from dispenser as needed into well bowls, pans or spray bottles</li> <li>• Check concentration frequently with standard chlorine test strip <b>Concentration should not exceed 200 ppm of available chlorine</b></li> </ul>
		
<p><b>Food Contact Surfaces</b></p> <p>(Beverage centers/nonporous prep-boards, holding wells/ service counters &amp; tables/ refrigerators/ freezers)</p>	<p>Bleach 1 Pump</p> <p>Water 2 Gallons</p>	<ul style="list-style-type: none"> <li>• Add 1 pump of this product to 2 gallon bucket of 65-75° F (room temperature) water</li> <li>• Check concentration frequently with chlorine test strip <b>Concentration should not exceed 200 ppm of available chlorine</b></li> <li>• Wash, rinse and wipe surface with bleach solution</li> <li>• Wet all drink surfaces for [at least] 1 minute</li> <li>• Drain &amp; air dry</li> </ul> <p>NOTE: During food preparation periods, wipe food contact surfaces frequently with sanitized wipe cloths. <b>Store cloths in bleach solution when not in use.</b></p>
<p><b>Stationary Equipment or other Food Contact Surfaces</b></p>		<p>Fresh sanitizing solution should be prepared daily or more often if the solution becomes diluted or soiled.</p>

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## How to Sanitize and Disinfect with CPPC ULTRA BLEACH 2

### TOILETS AND URINALS. DISINFECTION



Lift up pump. Push down to dispense.

#### Toilet

- Flush toilet to remove heavy soil
- Add 8 pumps of this product to toilet bowl
- Brush to thoroughly wet all surfaces, including under the rim
- Let stand for 2 minutes, then flush

#### Urinal

- Flush urinal to remove heavy soil
- Add 8 pumps of this product
- Brush thoroughly for 1 minute
- Let stand for 2 minutes, then flush



## SERVICE BULLETIN

### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR SANITIZING LAUNDRY

To sanitize and disinfect laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. -or- Use 1 cup of this product per standard washer, 1 1/4 cups for extra large washers or heavily soiled loads. Use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], *Influenza A* [Influenza A2] [Flu Virus] [(Strain Hong Kong)] [(representative of) the common flu virus] [ATCC VR-544], *Rhinovirus* [type 37] [ATCC VR-1147], *Trichophyton mentagrophytes* [(Athlete's Foot Fungus)] [ATCC 9533] [CDC No. WO-0031], *Rotavirus* [(Strain WA)] [ATCC VR-2018], [Human] *Hepatitis A* [Virus] [(HAV)] [ATCC VR-2093], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442].

NSF Category Code: B2-Laundry products – nonfood contact

### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DISINFECTING LAUNDRY

To sanitize and disinfect laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. -or- Use 1 cup of this product per standard washer, 1 1/4 cups for extra large washers or heavily soiled loads. Use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], *Influenza A* [Influenza A2] [Flu Virus] [(Strain Hong Kong)] [(representative of) the common flu virus] [ATCC VR-544], *Rhinovirus* [type 37] [ATCC VR-1147], *Trichophyton mentagrophytes* [(Athlete's Foot Fungus)] [ATCC 9533] [CDC No. WO-0031], *Rotavirus* [(Strain WA)] [ATCC VR-2018], [Human] *Hepatitis A* [Virus] [(HAV)] [ATCC VR-2093], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442].

NSF Category Code: B2-Laundry products – nonfood contact

### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR CLOSED-LOOP LAUNDRY DISPENSING SYSTEMS

**FOR USE WITH [Insert Dispenser Name] APPROVED DISPENSING SYSTEM.** Installation and service should only be performed by a [Company Name] Laundry Expert.

**To Disinfect or Sanitize Laundry:** Add enough of this product to reach 200 ppm (parts per million) available chlorine. Use a detergent. This product used according to directions is effective against *Staphylococcus aureus* (staph), *Pseudomonas aeruginosa* (pseudomonas), *Human Hepatitis B* [(as duck HBV)], *Influenza A2*, *Rhinovirus* Type 37, *Trichophyton mentagrophytes* (Athlete's Foot Fungus), *Rotavirus*, *Hepatitis A*, *Klebsiella pneumoniae*.

**For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard. See Child Hazard Drowning Pictogram text below:**  
**NOTICE: CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.**

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR SANITIZING HOSPITAL LAUNDRY

To sanitize and disinfect laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. -or- Use 1 cup of this product per standard washer, 1 1/4 cups for extra large washers or heavily soiled loads. Use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], Influenza A [Influenza A2] [Flu Virus] [(Strain Hong Kong)] [(representative of) the common flu virus] [ATCC VR-544], Rhinovirus [type 37] [ATCC VR-1147], Trichophyton mentagrophytes [(Athlete's Foot Fungus)] [ATCC 9533] [CDC No. WO-0031], Rotavirus [(Strain WA)] [ATCC VR-2018], [Human] Hepatitis A [Virus] [(HAV)] [ATCC VR-2093], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442].

NSF Category Code: B2-Laundry products – nonfood contact

### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DISINFECTING HOSPITAL LAUNDRY

To sanitize and disinfect laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. -or- Use 1 cup of this product per standard washer, 1 1/4 cups for extra large washers or heavily soiled loads. Use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], Influenza A [Influenza A2] [Flu Virus] [(Strain Hong Kong)] [(representative of) the common flu virus] [ATCC VR-544], Rhinovirus [type 37] [ATCC VR-1147], Trichophyton mentagrophytes [(Athlete's Foot Fungus)] [ATCC 9533] [CDC No. WO-0031], Rotavirus [(Strain WA)] [ATCC VR-2018], [Human] Hepatitis A [Virus] [(HAV)] [ATCC VR-2093], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442].

NSF Category Code: B2-Laundry products – nonfood contact

### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR FOOD EGG SANITATION

To sanitize food eggs: thoroughly clean all eggs. Prepare a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130° F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

NSF Category Code: Q4-Shell Eggs Chlorine sanitizers

**For continuous washers,** prepare washing solution as above. Add an additional 1/2 oz of detergent per every 4 gallons of 50 ppm available chlorine solution every 30 minutes. Dump wash tank and recharge every 2 hours. **For manual method,** soak eggs for only 1 to 2 minutes. Agitate basket. Make sure eggs are completely covered.

Air-dry eggs as rapidly as possible. Store in cool (55° F) room. Maintain relative humidity of 60-80%.

NOTE: Keep egg-washing equipment sanitary. Frequent cleaning will aid in operation and produce more sanitary eggs. While equipment is idle, bacteria can multiply. This contamination can be reduced by thoroughly flushing all equipment immediately before use with a solution of 200 ppm available chlorine.

### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR MEAT & POULTRY PLANT LAUNDRY USE

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

To sanitize laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. (1 cup of this product per standard washer, 1 1/4 cups for extra large washers or heavily soiled loads). Use a good detergent. For best results, dilute this product 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.

NSF Category Codes:

B1-Laundry products – food contact

B2-Laundry products – nonfood contact

G4-Chlorine products



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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DISINFECTION OF FLOORS, WALLS, SHOWERS AND TOILETS

**TO DISINFECT FLOORS, WALLS AND SHOWERS:** For nonporous surfaces such as vinyl or ceramic tile, clean surfaces to remove gross filth. Rinse surfaces thoroughly with a 2400 ppm available chlorine solution. Allow solution to remain on the surface for 2 minutes. Rinse. [Let air dry.]

**TO DISINFECT TOILETS:** Flush toilet. Pour  $\frac{2}{3}$  cup of this product into bowl. Brush bowl thoroughly, making sure to get under the rim and let solution stand for 2 minutes and flush again.

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DAIRY AND CREAMERY EQUIPMENT SANITATION

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

An exposure period of at least 2 minutes to a 200 ppm available chlorine solution should be maintained when the solution temperature is 75° F. Use chlorine test strips to adjust solution to desired strength. Lower solution temperatures result in slower action; for each 18° F drop in temperature, approximately double the exposure time is needed to achieve equivalent bactericidal action with same strength of solution. You can also compensate for lower temperatures by increasing the concentration of this product.

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

**RUBBER TEAT CUPS AND TUBES** - Before each milking, prepare a 200 ppm available chlorine sanitizing solution. Dip teat cups into this solution for 2 minutes before transferring them from one cow to another.

**To Sanitize - SOAKING METHOD:** After each milking, wash cups and tubes by brushing thoroughly with detergent solution. Rinse cups and tubes with cold water. Prepare a 200 ppm available chlorine sanitizing solution in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 1 minute, holding ends of tubes; coil tubes slowly into solution between milkings; drain thoroughly before using.

To maintain sanitizing solution at proper strength, add 1  $\frac{1}{2}$  oz of this product daily (in hot weather, 3 oz) for each 10 gallons water; mix well. Protect solution from light. Renew solution daily. Old solution may be utilized for deodorizing and making floors and drains sanitary; for this purpose, add 1 teaspoon of this product for each gallon of old solution; mix well.

**To Sanitize - RACK METHOD:** After each milking, rinse cups and tubes in cold water. Wash in detergent solution, then rinse. Prepare a 200 ppm available chlorine sanitizing solution; place solution in bottle above rack for 1 minute. Place tubes and cups in rack; fill with solution and let stand between milkings; drain thoroughly and air dry before using. Old solution may be utilized in deodorizing and making floors and drains sanitary.

**METAL TEAT CUPS AND TUBES** - Before each milking, prepare a 200 ppm available chlorine sanitizing solution. Dip teat cups into this solution before transferring them from one cow to another.

**To Sanitize:** After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in a 200 ppm available chlorine solution for 1 minute; drain thoroughly and dry before using. **(Metal cups should not be left in bleach solution.)**

**TO CLEAN AND SANITIZE MILKING MACHINES AND UTENSILS:** Immediately after milking, flush equipment with clean, lukewarm water. Dismantle equipment after each milking and wash it (including all rubber parts and stanchion hoses) and all utensils with a solution prepared by thoroughly mixing 1 oz of your [regular] [powdered] detergent with each gallon of a 200 ppm available chlorine solution. Water temperature should be 100° F to 130° F. **(DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Rinse equipment and utensils thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.\***

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**CLEANING IN PLACE - BULK STORAGE TANKS, DAIRY PIPELINES, TRANSFER STATIONS:** Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz of your [regular] [powdered] detergent with each gallon of a 200 ppm available chlorine solution. Hot water should be used if available, and the temperature of the solution should be maintained at 120-160° F throughout the entire circulation. **(DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Circulate the sanitizing solution through the system for 10 to 15 minutes. (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. Air dry. Seal this equipment to help protect against contamination. **Immediately before use, sanitize according to directions shown below.\***

**SEPARATORS, STRAINERS, MILK CANS, PAILS, CHURNS, PASTEURIZERS - to clean and sanitize:** After using, rinse immediately with clear, cold water; then scrub or pressure-spray with solution of 1 oz of your [regular] [powdered] detergent thoroughly mixed with each gallon of 200 ppm available chlorine solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions shown below.\***

**MILK BOTTLES - To sanitize:** Clean and rinse, then immerse for 5 minutes in a 200 ppm available chlorine solution prepared with cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach solution immediately before filling; drain thoroughly. Air dry. Ordinarily, 12 gallons of this strength solution will sanitize 5000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

**ICE CREAM FREEZERS - To clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz of [regular] [powdered] detergent with each gallon of 200 ppm available chlorine solution. Let stand 2 minutes. Rinse thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.\***

**\*BEFORE USE** - rinse with a 200 ppm available chlorine sanitizing solution 2 minutes; drain thoroughly.

**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) DISINFECTING GUIDE**

This product - a positive, powerful germicide - is a 6.15% sodium hypochlorite solution containing approximately 5.84% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering and 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:

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

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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) AS A FUNGICIDE FOR SEED POTATOES

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

### Use Instructions:

Thoroughly mix a solution of 5000 ppm available chlorine for spraying. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to 5 psi. Thoroughly cover all cut and uncut surfaces with the solution. The treatment will be most effective on clean seed tubers, as the organic matter in soil will reduce the effectiveness of the sodium hypochlorite.

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

### 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.

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

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

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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR MEAT AND POULTRY PROCESSING WATER Not approved for use with CSFs A10 through A17

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 intake 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. Use Chlorine Test Strips to adjust to desired available chlorine level. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained.

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### **CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR POULTRY CARE: SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A**

FOR INACTIVATION OF AVIAN INFLUENZA A IN POULTRY HOUSES, BROODERS, HATCHERIES:

1. Remove all poultry or animals and feeds from the premises, trucks, vehicles, coops, crates and enclosures.
2. Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Mix 1 part of this product with 24 parts water. Saturate all surfaces with the disinfecting solution for 5 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, coops, and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### **CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) 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** - Prepare a 5ppm available chlorine solution using clear water. Let stand 1 minute. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, a 2 ppm available chlorine solution should be prepared since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., a 1600 ppm available chlorine solution is effective in removing the slime. **DO NOT ALLOW BIRDS TO DRINK THIS SOLUTION.**

**TO CLEAN AND DISINFECT POULTRY HOUSES, BROODERS, HATCHERIES:** Poultry houses should be cleaned and disinfected between cycles; hatcheries should be cleaned weekly or as necessary to keep sanitary. Metal surfaces can be satisfactorily disinfected. Wooden surfaces are difficult to sanitize by any method.

- (1) Remove all litter, loose dirt and debris.
- (2) Thoroughly mix solution of 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution\*.
- (3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams. Let stand for 2 minutes.
- (4) Rinse with clean, clear, cold water.
- (5) Let dry thoroughly before introducing poultry.

**METAL INCUBATORS, FEEDERS, WATER CONTAINERS, OTHER POULTRY EQUIPMENT AND UTENSILS** - To clean and disinfect, remove loose dirt and debris. Scrub or pressure-spray with solution of 1 oz [powdered] detergent thoroughly mixed with each gallon of 1200 ppm available chlorine solution\*. Let stand for 2 minutes. Rinse with clear, cold water. Let dry.

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



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**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8)  
FOR ENCLOSURES AND EQUIPMENT USED FOR AMPHIBIAN CARE:  
SPECIAL INSTRUCTIONS FOR CONTROLLING THE SPREAD OF *BATRACHOCHYTRIUM DENDROBATIDIS*  
(CHYTRID FUNGUS, FUNGAL PATHOGEN OF AMPHIBIANS)**

**For Use on Hard, Nonporous Enclosures and Equipment:**

Use protective gloves and ventilate area.

- (1) Remove amphibians from area to be treated.
- (2) Mix 1 part of this product to 4 parts water (approximately 1.2% sodium hypochlorite) (11,500 ppm).
- (3) Thoroughly clean and saturate surfaces for 5 minutes.
- (4) Rinse thoroughly with water before placing amphibians in enclosures or in contact with equipment.

Note: All water used for cleaning enclosures and equipment must be treated with the bleach solution to avoid rinsing the Chytrid fungus down the drain or contaminating other surfaces.

**For Use on Field Equipment:**

Any hard, nonporous equipment, including rubber boots, that comes into contact with water must be treated with bleach to prevent the fungal pathogen from spreading to clean sites (see instructions above). Care must be taken to avoid environmental contamination when disinfecting in the field.

Note: All water used for cleaning equipment must be treated with the bleach solution to avoid spreading the Chytrid fungus.

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**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8)  
FOR SANITATION IN CARE OF LIVESTOCK, HORSES, PETS**

**TO CLEAN AND DISINFECT BARN, STABLES, HUTCHES, KENNELS:** Remove all litter, loose dirt and debris. Mix 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution until detergent is dissolved\*. Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. Let stand for [at least] 2 minutes. Rinse with clean, clear, **cold** water. Let area dry thoroughly before housing animals.

**LOADING AND HAULING EQUIPMENT:** Loading chutes, trucks, trailers and other equipment for transportation of animals should be cleaned and disinfected prior to use. Pressure-spray or scrub with solution prepared by thoroughly mixing 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution\*. Let stand for [at least] 2 minutes. Rinse with clean, clear, **cold** water. Allow to dry before use.

**FEEDERS AND DRINKING WATER CONTAINERS - to clean and disinfect:** Thoroughly scrub or pressure-spray with solution of 1 oz [powdered] detergent mixed with each gallon of 2400 ppm available chlorine solution\*. Let stand for [at least] 2 minutes. Rinse thoroughly with clear, **cold** water; allow to drain dry. (A solution of 1600 ppm available chlorine is effective in removing slime which sometimes forms on drinking water containers. **DO NOT LET ANIMALS DRINK THIS SOLUTION.**)

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

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

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**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR SANITATION IN CARE OF SWINE**

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

- (1) Remove loose dirt, litter and debris. Dirty or coated surfaces cannot be disinfected.
- (2) Mix 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution until detergent is dissolved.\* Let stand for [at least] 2 minutes.
- (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 [powdered] detergent with each gallon of 2400 ppm available chlorine solution\*. Let stand for [at least] 2 minutes. Rinse thoroughly with clear, **cold** water; drain dry. (Drinking troughs and feeders should be cleaned and disinfected before housing pigs, and as often as necessary to keep sanitary.)

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

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

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

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

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) IN SANITATION OF RESTAURANTS AND TAVERNS

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

**TO SANITIZE WORK SURFACES (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 200 ppm available chlorine sanitizing solution. Apply this solution 1 minute. Air dry.

**TO DISINFECT WORK SURFACES (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 2400 ppm available chlorine disinfecting solution. Apply this solution 2 minutes. Rinse with potable water. Air dry.

**TO SANITIZE DISHES, GLASSWARE, UTENSILS:** Wash thoroughly; then soak 1 minute in a 200 ppm available chlorine solution [made with hot water]. Use chlorine test strips to adjust to 200 ppm available chlorine. Drain dry. (Do not use on steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

**DISINFECTING SINK AND SANITIZING DISH CLOTH[S]:** should be a routine follow-up to dishwashing. First wash sink and rinse dishcloth[s] in hot suds. Drain out sudsy water. Then fill with a 2400 ppm available chlorine solution. Let stand 2 minutes. Swish dishcloth[s] in this solution; then use it to wipe sides of sink. Soak dishcloth[s] for 1 minute in this solution. Then rinse sink and dishcloth[s] with clear water.

**TO DEODORIZE DRAIN PIPES:** Flush with very hot water followed by  $\frac{3}{4}$  cup of this product. Wait 5 minutes; flush out with clear water.

**TO SANITIZE REFRIGERATORS:** First wash inside surfaces. Then wipe with a 200 ppm available chlorine solution made with warm water. Let stand for [at least] 1 minute. Air dry. (Do not use on steel, aluminum, silver, or chipped enamel.)

**ICE CREAM FREEZERS - to clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz [regular] [powdered] detergent with each gallon of 400 ppm available chlorine solution. Rinse thoroughly with clear, clear water; drain. Immediately before use, sanitize for 2 minutes with a 200 ppm available chlorine solution, drain thoroughly.

**TO DISINFECT HARD, NONPOROUS FLOORS** (plastic or ceramic tile): Prepare a 2400 ppm available chlorine solution. Mop or scrub. (Do not use on cork or linoleum.) Let stand 2 minutes. Rinse.

**TO SANITIZE BRUSHES, MOPS AND BROOMS:** After using brushes, mops and brooms, wash thoroughly; then soak for 2 minutes in a 2400 ppm available chlorine solution made with warm water. Rinse with clear water; dry. (Not recommended for cellulose sponge mops.)

**TO SANITIZE PAILS AND DUSTPANS:** Remove heavy dirt prior to cleaning. Wash with a 2400 ppm available chlorine solution. Let stand 2 minutes. Rinse with clear, cold water. Air dry.

**TO DEODORIZE AND SANITIZE GARBAGE CANS:** Remove heavy dirt with a cleaner. Rinse. Pour in a 2400 ppm available chlorine solution. Swab inside surfaces with this solution. Let stand 2 minutes. Rinse with clear water; dry.

NSF Designation D2 -- This product is acceptable as a sanitizer for all surfaces not always requiring a rinse (D2) in and around food processing areas.

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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS

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

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

The bleach solution used for sanitizing should not exceed 200 ppm (parts per million) available chlorine. (Use chlorine test strips to adjust to 200 ppm available chlorine.) The bleach solution should be applied by spraying, soaking or scrubbing. Treated surfaces should remain wet for at least one minute.

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

NSF Designation D2 – This product is acceptable as a sanitizer for all surfaces not always requiring a rinse (D2) in and around food processing areas.

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR SWIMMING POOL DISINFECTION

This product is a 6.15% sodium hypochlorite solution, containing approximately 5.84% 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	2 <sup>3</sup> / <sub>4</sub> cups	20,000	10 <sup>1</sup> / <sub>2</sub> cups
6,000	3 <sup>1</sup> / <sub>4</sub> cups	25,000	13 <sup>1</sup> / <sub>2</sub> cups
8,000	4 <sup>1</sup> / <sub>4</sub> cups	30,000	16 cups
10,000	5 <sup>1</sup> / <sub>4</sub> cups	35,000	19 cups
15,000	8 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. Three and 1/4 cups 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. Re-entry to treated pools is prohibited above 4 ppm due to risk of bodily harm.

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, this product 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 and 5/8 cups 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.

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

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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. This additional product should be added to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 7 cups of this product to 5 gallons of water applying solution with a fiber brush. The pool should be scrubbed while wet and rinsed off when algae growth has been removed; all of the growth and dirty solution should be flushed from the pool with clear water before the pool is refilled. Avoid skin contact with undiluted product; if such contact occurs, rinse immediately with water. When added as recommended, this product has no deleterious effects on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR WADING POOL DISINFECTION**

This product - a 6.15% sodium hypochlorite solution containing approximately 5.84% 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 1/2 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.

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

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.

Depth of Water	Pool Diameter				
	4 Ft	6 Ft	8 Ft	10 Ft	15 Ft
6 inches	1/16 cup	1/8 cup	1/4 cup	3/8 cup	3/4 cup
1 foot	1/8 cup	1/4 cup	1/2 cup	3/4 cups	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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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR BACTERICIDAL EFFICACY

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

### Gram positive bacteria including:

Staphylococcus aureus [(Staph)] [ATCC 6538]  
Streptococcus pyogenes [(Strep)] [ATCC 9342]  
Methicillin resistant Staphylococcus aureus [(MRSA)] [ATCC 33592]  
Streptococcus pneumoniae [(Strep)] [ATCC 6305]

### Gram negative bacteria including:

Acinetobacter baumannii [ATCC 15308]  
Salmonella enterica -or- [Salmonella choleraesuis]  
[(Salmonella)] [ATCC 10708]  
Pseudomonas aeruginosa [(Pseudomonas)] [ATCC 15442]  
Escherichia coli O157:H7 [(E. coli)] [ATCC 35150]  
Legionella pneumophila [(Legionella)] [ATCC 33153]  
Shigella dysenteriae [(Shigella)] [ATCC 13313]  
Vancomycin resistant Enterococcus  
faecalis [(VRE)] [ATCC 51299]

### Directions for use:

#### Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 2400 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 2 minutes. Rinse with clean water and dry.

**TO SANITIZE GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. Let stand [at least] 2 minutes. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add  $\frac{2}{3}$  cup of this product to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 2 minutes before flushing again.

### Use Sites

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

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) TUBERCULOCIDAL EFFICACY

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

### Directions for use:

#### Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 5000 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 minutes. Rinse with clean water and dry.

### Use Sites

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

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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) VIRUCIDAL ‡ EFFICACY

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

<p>Adenovirus [type 2] [ATCC VR-846]          [Human] Hepatitis A [Virus] [(HAV)] [ATCC VR-2093]          [Human] Hepatitis B [Virus] [(HBV)] [(as duck HBV)]          [Strain DHBV16]*          Human Immunodeficiency Virus Type 1 [(RF Strain)] [(HIV-1)]*          [Type 1] [HIV-1 Associated with AIDS]          Respiratory syncytial virus [(RSV)] [ATCC VR-26]          Herpes simplex virus [type 2] -or- [Human] Herpesvirus [type 2]          [ATCC VR-734] [(Strain G)]          Rubella virus [ATCC VR-315]          Feline parvovirus [ATCC VR-648]**          Avian Influenza A [ATCC VR-2072]          Norovirus -or- Norwalk virus [(as Feline Calicivirus)] [ATCC VR-782]</p>	<p>[Human] Hepatitis C [Virus] [(HCV)] [(as bovine viral          diarrhea virus)] [ATCC VR-1422]*          Parainfluenza [type 1] [(Strain Sendai)] [ATCC VR-907]          Rotavirus [(Strain WA)] [ATCC VR-2018]          Cytomegalovirus [ATCC VR-578]          Influenza A [Influenza A2] [Flu Virus] [(Strain Hong Kong)]          [(representative of) the common flu virus] [ATCC VR-544]          Varicella zoster virus [ATCC VR-586]          Rhinovirus [type 17] [ATCC VR-1147]          Canine parvovirus [ATCC VR-953]**          Human Coronavirus [ATCC VR-740]</p>
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### Directions for use:

Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.) Prepare a 2400 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 minutes. Rinse with clean water and dry.

\*see directions in the Clorox Service Bulletin entitled "Special Instructions for Using CPPC ULTRA BLEACH 2 to Clean and Decontaminate Against HIV, HBV and HCV on Surfaces/Objects Soiled with Blood/Body Fluids"

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

**TO SANITIZE GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. Let stand [at least] 1 minute. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add ¾ cup of this product to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 2 minutes before flushing again.

### Use Sites

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

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FUNGICIDAL EFFICACY

This product, when used as directed below, is effective against molds. Athlete's foot fungus (*Trichophyton mentagrophytes*), and Mildew (*Aspergillus niger*).

### Directions for use:

Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 2400 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 2 minutes. Rinse with clean water and dry.

**TO SANITIZE GARBAGE CANS/DIAPER PAILS:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. Let stand [at least] 2 minutes. Rinse and air dry.

### Use Sites

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

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### Special Instructions for Using CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) to Clean and Decontaminate Against HIV, HBV<sup>††</sup> and HCV<sup>††</sup> on Surfaces/Objects Soiled with Blood/Body Fluids

This product kills HIV-1, HBV and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), [Human] Hepatitis B Virus (HBV) and [Human] Hepatitis C Virus (HCV).

**Personal Protection:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

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

**Dilution and Contact time:** Prepare a 2400 ppm available chlorine solution and spray or flood surface; let stand 2 minutes [for HIV]. Let stand 5 min for HBV/HCV.

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

<sup>††</sup> 5 min

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR FRUIT & VEGETABLE WASHING

Thoroughly clean all fruits and vegetables in a wash tank. Prepare a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

NSF Category Code: 3D-Substances for washing fruits and vegetables

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) CANDIDA ALBICANS EFFICACY

#### Directions for use:

Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.) Prepare a solution of 2400 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 2 minutes. Rinse with clean water and dry.

**TO SANITIZE DIAPER PAILS:** Preclean diaper pails with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. Let stand [at least] 2 minutes. Rinse and air dry.

#### Use Sites

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

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DISINFECTION USES (2400 PPM FOR 1 MINUTE) [(SPRAY APPLICATIONS)]

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

#### Directions for use:

Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Spray surface using a coarse spray with 2400 ppm available chlorine solution until thoroughly wet. Allow it to remain on the surface for 1 minute. Rinse and dry.

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



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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DISINFECTION USES (800 PPM FOR 2 MINUTES) [(SPRAY APPLICATIONS)]

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

### Directions for use:

#### Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris; food materials, etc.) Spray surface using a coarse spray with 800 ppm available chlorine solution until thoroughly wet. Allow it to remain on the surface for 2 minutes. Rinse and dry.

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

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## USE CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) IN SANITIZING CYCLE OF CHEMICAL SANITIZING DISHWASHING MACHINES

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

### Usage Directions

1. Hook up a bottle of this product to the automatic bleach dispensing system of the chemical sanitizing dishwashing machine. If the bottle is already in place, make sure that sufficient product remains in the bottle to complete the dishwashing job.
2. Wash tableware in the machine following the manufacturer's operating instructions.
3. After the washing/rinsing/sanitizing cycles are completed, remove the dishwashing rack. Let stand 2 minutes. Allow the tableware to air dry.

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

### Bleach Dispensing System Adjustments

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

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

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

### Correct Chlorine Concentration

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

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**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8)**  
**PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS**

**Crop/Site/Commodity:** 1. Walks, benches, tools, plant containers in nurseries and other quarantine areas.  
 2. Farm equipment and machinery.  
 3. Laboratory work areas, equipment and specimens.  
 4. Deciduous fruit tree nursery stock (dormant)

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

**Dosage:** See dilution rate.

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

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

**Deciduous Fruit**

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

**Method of Application:** Drench and dip method.

**Deciduous Fruit Tree Nursery Stock:**

1. Thoroughly clean all soil from roots.
2. Dip entire tree root system in solution for 30 to 45 seconds.
3. Immediately rinse tree root system with clean water upon removal from dip solution.

**Frequency/  
Timing of Application:** As needed.

**Deciduous Fruit Tree Nursery Stock:**

One application at harvest (tree-digging period)

**Field Reentry**

**After Application:** Not applicable.

**Preharvest Interval:** Not applicable.

**Other Requirements:** Do not apply through any type of irrigation system.

**Deciduous Fruit Tree Nursery Stock:**

Workers required to wear eye protection and waterproof gloves.

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) KARNAL BUNT QUARANTINE TREATMENT USE DIRECTIONS

- Crop/Site/Commodity:** Tools, conveyances, mechanized farm equipment, seed conditioning or milling equipment, soil moving equipment, or grain elevators and structures used for storing and handling grain.
- Target Pest/Problem:** Karnal bunt (*Tilletia indica*)
- Dosage:** See dilution rate.
- Dilution Rate:** Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient).
- Method of Application:** Before treating remove all soil and plant debris. The dilute solution of sodium hypochlorite will be used to wet the point of runoff surfaces potentially exposed to the pathogen. Saturate any soil removed by the treatment with the solution. It is recommended that the equipment or site be thoroughly washed down with clean water after 15 minutes to minimize corrosion.
- Crop/Site/Commodity:** Wheat and triticale germplasm for research or seed increase use. Commodities may not be used for food, feed or oil purposes.
- Target Pest/Problem:** Karnal bunt (*Tilletia indica*)
- Dosage:** See dilution rate.
- Dilution Rate:** Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient) with 2mL/L Tween added.
- Method of Application:** Treat seed with the dilute solution and agitate for 10 minutes at room temperature. Follow seed treatment by a 15 minute rinse with clean, running water, then drying of the seed.

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

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

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR CONTROLLING THE SPREAD OF *PHYTOPHTHORA RAMORUM* (CAUSE OF SUDDEN OAK DEATH) IN FORESTS

When used as directed, this product is effective in controlling the spread of the invasive pathogen *Phytophthora ramorum* in forests. *P. ramorum* causes a fatal canker disease of several tree species and damages many other plant species.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The use of infested water sources can spread *P. ramorum* to uninfested areas. Treating water prior to use helps control the spread of this pathogen.

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

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR EMERGENCY DISINFECTION AFTER MAIN BREAKS

**Mains**

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

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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR DISINFECTION OF DRINKING WATER (POTABLE) (Public 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.

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR EMERGENCY DISINFECTION AFTER DROUGHTS

### A. Supplementary Water Supplies

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

### B. Water shipped in By Tanks, Tank Cars, Trucks, etc.

Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.22 ppm chlorine residual. Use a chlorine test kit.

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR EMERGENCY DISINFECTION AFTER FIRES

### Cross Connections or Emergency Connections

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

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR EMERGENCY DISINFECTION AFTER FLOODS

### Wells

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

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR ASPHALT OR WOOD ROOFS AND SIDINGS

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

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR SPAS, HOT TUBS, IMMERSION TANKS

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

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

**B. HUBBARD AND IMMERSIONS TANKS (Not approved for use in the State of California):** Before patient use, add product to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use, drain the tank. Add 10 ounces of product to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths.

**C. HYDROTHERAPY TANKS:** Add product to the water to obtain a chlorine residual of 1 ppm as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly and clean before refilling.

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## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR 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. Mix well [(2 drops to 1 quart)]. Consult your local Health Department for further details.
2. **FLOWING ARTESIAN WELLS:** Artesian wells generally do not require disinfection. If analysis indicates persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

### 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)], or 1 teaspoon or 1/2 capful to 10 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.**

For cloudy water, use 16 drops of this product to 1 gallon of water [(4 drops to 1 quart)], or 2 teaspoons or 1 capful to 10 gallons of water. If no chlorine odor is apparent after 30 minutes, repeat dosage and wait an additional 15 minutes.

## CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR:

### CROP/SITE: ASPARAGUS SEED TREATMENT

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

Dosage: 5000 ppm available chlorine solution.

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

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

Frequency/Timing of Applications: 1 application.

Preharvest Interval: Preplant treatment.

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

### CROP/SITE: PEPPER SEED TREATMENT

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

Dosage: 10,000 ppm available chlorine solution.

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

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

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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**CROP/SITE: TOMATO SEED TREATMENT**

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

Dosage: 10,000 ppm available chlorine solution.

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

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

Frequency/Timing of Application: 1 application.

Preharvest Interval: Preplant treatment.

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

**CROP/SITE: RICE SEED TREATMENT**

Target Pest/Problem: To aid in surface sterilization of rice seed for prevention of bakanae disease *Fusarium fujikuroi* [syn *F. moniliforme*] -or- *Gibberella fujikuroi*

Dosage: 3000 ppm available chlorine solution.

Dilution or Application Rate: 5 gallons of solution per 95 gallons water.

Method of Application: Using a thoroughly pre-mixed solution, soak seed for two hours then drain solution and replace with fresh water. Continue seed soaking and draining as usual. Do not apply undiluted product directly to seed.

Dosage: 1500 ppm available chlorine solution.

Dilution or Application Rate: 2.5 gallons solution per 97.5 gallons of water.

Method of Application: Using a thoroughly pre-mixed solution, soak and drain seed as usual (no rinse required). Do not apply undiluted product directly to seed.

Frequency/Timing of Applications: 1 application during preplant soaking of seed.

Pre-harvest Interval: Preplant treatment.

Other Requirements: Do not use treated seeds for food or feed. Prepare fresh solution for each batch of seed.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.]

THIS LABEL MUST BE IN POSSESSION OF THE USER.

REFER TO THE MAIN LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**USER SAFETY RECOMMENDATIONS****USERS SHOULD:**

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in

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the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the worker protection standard, 40 CFR, part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the worker protection standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the worker protection standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks, and protective eyewear.

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) FOR PORT ORFORD CEDAR ROOT DISEASE (*Phytophthora lateralis*) TREATMENT USE

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

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

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

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### CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8) SOUTHERN SEAOT SEEDS (*UNIOLA PANICULATA*)

#### CROP/SITE TREATMENT

<b>Crop/Site/Commodity:</b>	Southern seaot seeds ( <i>Uniola Paniculata</i> )
<b>Target Pest/Problem:</b>	Plant disease-causing bacteria and fungi
<b>Dilution of Product:</b>	1 part product to 1.28 parts water (27,000 ppm)
<b>Method of Application:</b>	Soak seeds in solution for 15 minutes, rinse with tap water and allow to dry at 21°C (70°F) for 30 minutes. Store in cool dry location prior to germination.
<b>Frequency/Timing of Application:</b>	Treat seeds prior to germination
<b>Precautions:</b>	As sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic coated and should be rinsed with clear water after use of product. Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of product with skin. Do not ingest product or breathe vapors. Keep containers tightly closed. Use only with adequate ventilation. Wear safety glasses. If full strength or diluted product is splashed in the eyes, flush with water. Wash thoroughly after handling.
<b>NOTE:</b>	DO NOT USE TREATED SEED FOR FOOD OR FEED. Use bleach treatment only on crops and for the purposes recommended. Apply only as specified above.

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**CPPC ULTRA BLEACH 2 (EPA Reg. No. 67619-8)  
DILUTION TABLE**

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

Approximate ppm Available Chlorine	Volume of this product	Volume of Water
10,000	2 pints	9 1/2 pints
5,000	3 oz	1 quart
	1 1/2 cups	1 gallon
	7 1/2 cups	5 gallons
3,000	180 oz	28 gallons
	5 gallons	95 gallons
2,400	1 part	23 parts
	4 tsp.	1 pint
	2 2/3 Tbsp.	1 quart
	2/3 cup	1 gallon
	1 1/3 cups	2 gallons
	2 cups	3 gallons
	3 1/3 cups	5 gallons
1,600	7 Tbsp.	1 gallon
	7 oz	2 gallons
1,500	2 1/2 gallons	97 1/2 gallons
1,100	1 1/3 cups	5 gallons
800	10 tsp.	1 gallon
700	3 Tbsp.	1 gallon
500	13 tsp.	2 gallons
400	5 tsp	1 gallon

Approximate ppm Available Chlorine	Volume of this product	Volume of Water
300	2 tsp.	1/2 gallon
200	2 1/2 tsp.	1 gallon
	2 1/2 oz	6 gallons
	5 oz	12 gallons
	1 quart 18 oz	100 gallons
80	1/4 tsp.	1 quart
	1 tsp.	1 gallon
	1 Tbsp.	3 gallons
70	1 1/2 oz	10 gallons
50	16 drops	1 quart
	3/4 tsp.	1 gallon
	1/2 oz	4 1/2 gallons
	2 1/2 Tbsp.	10 gallons
	25	1 tsp.
10	2 1/2 tsp.	7 1/2 gallons
	5 tsp.	15 gallons
	16 drops	1 gallon
5	3/4 tsp.	5 gallons
	1 1/2 tsp.	10 gallons
	8 drops	1 gallon
	3/4 tsp.	10 gallons

Table of Liquid Measures:

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