



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

**FILE COPY**

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 31, 2010

Heather R. Bjornson  
Regulatory Consultant for Champion Packaging & Dist.  
1150 18<sup>th</sup> Street, NW, Suite 1000  
Washington DC, 20036

Subject: Sodium Hypochlorite Solution 10%  
EPA Reg.#: 55852-2  
Notification Date: August 12, 2010  
Receipt Date: August 19, 2010

Dear Ms. Bjornson:

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

**Proposed Notification:**

Add a non-refillable container per PR Notice 2007-4 and environmental hazards language per PR Notice 2008-1, for Sodium Hypochlorite Solution 10% (EPA Reg# 55852-2).

**General Comment:**

Based on the review of the material submitted, this notification is acceptable, and the following comments apply:

1. Correct typos

- under **Storage and Disposal**: change "Do no..." to "Do not..."
- under **Pesticide Disposal** "...change. "rinse" to "rinsate"
- under **Empty Container Disposal** delete "with" after "Fill the container with..."

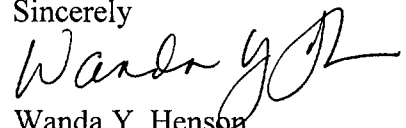
2. Under **Empty Container Disposal** for product equal to or less than 5 gallon insert also a statement "Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay of smoke..." as for "Containers greater than 5 gallons"

3. Under **Empty Container Disposal** for product container greater than 5 gallon insert the statement **“Turn the container over onto its other end and tip it back and forth several times”**, before the sentence **“Empty the rinsate...”**

This notification and a copy of this letter have been inserted in your file for future reference.”

If you have any questions on this letter, please contact David Liem at 703-305-1284 or by email at [liem.david@epa.gov](mailto:liem.david@epa.gov)

Sincerely



Wanda Y. Henson  
Acting Product Manager (32)  
Regulatory Management Branch II  
Antimicrobial Division (7510P)

32

3/9



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
Amendment  
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 55852-2	2. EPA Product Manager Wanda Henson	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Sodium Hypochlorite Solution 10%	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) Champion Packaging, Inc. 1840 Internationale Parkway Woodridge, IL 60517 <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.)  
 This notification is to add language pertaining to nonrefillable containers for this product per PR Notice 2007-4 and is not subject to PRIA.  
 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. Sec. 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.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container

3. Location of Net Contents Information  
 Label     Container

4. Size(s) Retail Container  
1, 5, 55 gallons

5. Location of Label Directions

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper, glued Stenciled     Other \_\_\_\_\_

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Heather R. Bjornson, Technology Sciences Group, Inc.	Title Regulatory Consultant	Telephone No. (Include Area Code) (202) 828-8945
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**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.

2. Signature

3. Title  
Regulatory Consultant to Champion Packaging & Dist.

4. Typed Name  
Heather R. Bjornson

5. Date  
August 12, 2010

6. Date Application Received (Stamped)

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**WASHINGTON**

1150 18th Street, N.W.  
 Suite 1000  
 Washington, D.C. 20036  
 Telephone 202 223-4398  
 Fax 202 872-0745

Wanda Henson  
 Biopesticides and Pollution Prevention Division (7504P)  
 Office of Pesticide Products  
 US Environmental Protection Agency  
 Room S-4900, One Potomac Yard  
 2777 South Crystal Drive  
 Arlington, VA 22202-4501

August 12, 2010

**RE: Champion Sodium Hypochlorite Solution 10% (EPA Reg. No. 55852-2)**

**Notification per PR Notice 2007-4 and 2008-1**

**SACRAMENTO**

712 Fifth Street  
 Suite A  
 Davis, CA 95616  
 Telephone 530 757-1298  
 Fax 530 757-1299

Dear Wanda,

Technology Sciences Group Inc., on behalf of Champion Packaging, Inc., is submitting the enclosed notification to add nonrefillable container and environmental hazards language to the label for Champion Sodium Hypochlorite Solution 10% (55852-2).

Please do not hesitate to contact me directly with any questions.

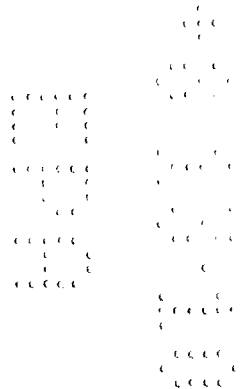
Sincerely,

A handwritten signature in cursive script that reads "Heather R. Bjornson".

Heather R. Bjornson  
 Regulatory Consultant for Champion Packaging & Dist.  
 Direct dial: (202) 828-8945; E-mail: [hbjornson@tsgusa.com](mailto:hbjornson@tsgusa.com)

**CANADA**

275 Slater Street  
 Suite 900  
 Ottawa, Ontario  
 K1P 5H9  
 Telephone 613 247-6285  
 Fax 613 236-3754



# SODIUM HYPOCHLORITE SOLUTION

**[Alternate Brand Names: Champion Pool Shock 10.0%, Clear-X Pool Shock, Malibu Pool Shock, ProChlor Pool Shock, Pro-Tech Liquid Chlorinator, Sparkle 'n Shine, Wolf Pools & Spas, Inc. SHOCK, Warsaw Chemical Co, Inc. Sodium Hypochlorite Pool Brite Sanitizer]**

**Active Ingredient:**  
**Sodium Hypochlorite.....10.0%**  
**Inert Ingredients..... 90.0%**  
**Total.....100.0%**  
Available Chlorine 15%

## KEEP OUT OF REACH OF CHILDREN DANGER

### 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. Call a poison control center or doctor for treatment advice.  
**IF SWALLOWED,** immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.  
**IF ON SKIN OR CLOTHING,** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

FOR MEDICAL EMERGENCY Call INFOTRAC 1-800-535-5053

FOR CHEMICAL EMERGENCY DURING TRANSPORTATION ONLY Call INFOTRAC 1-800-535-5053 24 hours per day, 7 days per week

### PRECAUTIONARY STATEMENTS:

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and rubber gloves when handling this product. Wash thoroughly after handling. May be fatal if swallowed. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

#### ENVIRONMENTAL HAZARDS:

This product is toxic to fish and aquatic organisms. (For commercial /industrial uses, product 5 gallons or larger) [Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public 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.]

(For residential use) [To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over treated area will help avoid run off to water bodies or drainage systems.]

Chlorine must be allowed to dissipate from treated pool water before discharge. Do not make any chlorine application within 24 hours of discharge.

#### PHYSICAL AND CHEMICAL HAZARDS:

**STRONG OXIDIZING AGENT:** Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes, which can also be fatal. Mixing this product with cyanide compounds will release cyanogen chloride which is irritating to eyes, lungs and mucous membranes, which can also be fatal.

#### STORAGE AND DISPOSAL:

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

**Pesticides Storage:** Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not contaminate food or feed by storage, disposal or cleaning of equipment. Do not transfer to unmarked containers. Keep containers closed with closure end up. Use in a well-ventilated area. Before use, review material safety data sheet for other information, including possible chronic health effects. When opening, loosen closure carefully.

~~Keep container closed to prevent spills and contamination.~~

**Pesticide Disposal:** Wastes of this product may be dangerous. Improper disposal of excess pesticide or rinse is a violation of Federal Law. If these wastes cannot be disposed of according to the label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Empty Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. [For product containers equal to or less than 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container with ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. [For product containers greater than 5 gallons] Triple rinse as follows: Empty 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal.

Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Empty containers may contain hazardous product residues. Rinse empty container thoroughly with water and either return to manufacturer or discard by placing this container in trash collection or burying in an approved landfill.

**DIRECTIONS FOR USE:**

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

**SWIMMING POOL WATER DISINFECTION**

For a new pool or for spring start-up, superchlorinate with 52 to 104 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. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 PPM.

To maintain the pool, add manually or by a feeder device 11 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.6 to 1.0 PPM by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 PPM available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

Every 7 days or as necessary, superchlorinate the pool with 52 to 104 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 enter pool until the chlorine residual drops below 4.0 PPM.

At the end of the swimming pool season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

**WINTERIZING POOLS:** While water is still clear and clean, apply 3 oz. of product per 1000 gallons, while filter is running, to obtain a 3 PPM available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

See technical data sheet for other use directions.

**NOTE:** Sodium hypochlorite solutions degrade with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chloride.

**DIRECTIONS FOR USE IN EATING ESTABLISHMENTS:** (1) Scrape and prewash utensils and glasses whenever possible. (2) Wash with a good detergent or compatible cleaner. (3) Rinse with clean water. (4) Sanitize in a solution of 1/4 ounce to each gallon water (200 PPM). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code. (5) Place sanitized utensils on a rack or drainboard to air dry. Note: A clean potable water rinse following sanitization is not permitted under Section H 96.16 (2) (c) of the Wisconsin Administrative Code.

**DILUTION TABLE**

100 PPM.....	1/4 ounce to 2 gallons water
200 PPM.....	1/4 ounce to 1 1/4 gallons water
400 PPM.....	1/2 ounce to 1 1/4 gallons water
1000 PPM.....	1 1/4 ounces to 1 1/4 gallons water

**LAUNDRY:** To bleach and sanitize white and colorfast cotton, linen, nylon, dacron, orlon, and rayon, use 1/2 cup bleach per load for conventional washing machine and 1/4 cup for front loading machine. Add to presoak, wash water or first rinse. If clothes are in machine, dilute bleach in one quart water before adding.

**LAUNDRY SANITIZERS (Commercial Laundry Sanitizers)**

Wet fabrics or cloths should be spun dry prior to sanitization. Thoroughly mix 2 oz. of this product with 10 gallons of water to yield 200 ppm chlorine. Promptly after mixing the sanitizer, add the solution into pre-wash prior to washing fabric/cloths in the regular wash cycle with good detergent. Test the level of available chlorine. If solution has been allowed to stand. Add more of the product if available chlorine level has dropped below 200 ppm.

**STAIN REMOVAL:** For stubborn stains from grass, mildew, ink, scorch, coffee, fruit, berry, etc. mix 1/8 cup of bleach in one quart water. Immerse fabric for up to 5 to 10 minutes. Rinse well in clear water. Repeat if necessary. Use porcelain, rubber, or glass container.

**TO WHITEN NYLON & OTHER SYNTHETICS** that have turned yellow or gray: Use one tablespoon bleach per gallon of water. Soak clean fabric in solution 15 to 20 minutes, rinse well. Repeat if necessary.

**DEODORIZING AND SANITIZING:** For baby clothes, diapers, dish cloths, etc., first wash, then soak in solution of 1/2 tablespoon of bleach to 1 gallon of water for 5 minutes. Rinse well. For wooden utensils, floors, breadboards, sinks, etc., wash in normal manner, then soak or wet with a solution of 1/8 cup of bleach in 1 quart water. Let stand for 5 minutes. Air dry.

TO CLEAN BATHROOM AND KITCHEN: For refrigerator, tile, bathtub, etc., use one tablespoon bleach to 1 quart water. Simply wash, rinse, apply bleach solution, let air dry.

**SPAS, HOT TUBS, IMMERSIONS TANKS, ETC.**

SPAS/HOT TUBS – Apply 5 oz. 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 7.6. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 5 oz. of product per 1000 gallons of water over the surface to maintain a chlorine concentration of 5 PPM.

After each use, shock treat with 8 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 4 oz. of product daily per 1000 gallons of water to maintain a 3 PPM chlorine concentration.

**DIRECTIONS FOR DISINFECTION OF POTABLE WATER FOR HOME WELL WATER SYSTEMS**

Dilute this sodium hypochlorite solution in the ratio of one part solution to nine parts softened water. Mix thoroughly and begin feeding with a hypochlorinator (metering pump). Maintain a free available chlorine residual of at least 0.2 PPM and not more than 0.6 PPM throughout the distribution system, as determined by a DPD chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Check water frequently with a DPD chlorine test kit. For further details, contact your local Health Department.

**DIRECTIONS FOR SANITIZING FOOD PROCESSING OR DAIRY EQUIPMENT**

Clean equipment in the normal manner. Just before using, rinse all surfaces thoroughly with a sodium hypochlorite solution containing 200 PPM available chlorine. One ounce (2 tbsp.) of this solution per four gallons of water will provide approximately 200 PPM available chlorine. Maintain contact with disinfectant for a minimum of two minutes. Do not rinse with water after treatment. Do not soak overnight.

**DIRECTIONS:**

Pour directly into pool or feed through your mechanical chlorinator. Apply in evening or early morning as sunlight dissipates chlorine rapidly.

Pool Capacity In gallons	Suggested Daily Dosages
10,000	12 oz.
20,000	24 oz.
30,000	36 oz.
40,000	48 oz.
50,000	60 oz.
75,000	90 oz.
100,000	120 oz.

For food contact surfaces, available chlorine must be maintained between 100 PPM to 200 PPM.

TABLE OF PROPORTIONS – AVAILABLE CHLORINE	
.1ppm	– .10 fluid ounces per 1000 gallons water
1ppm	– 1.0 fluid ounces per 1000 gallons water
10ppm	– 10 fluid ounces per 1000 gallons water
100ppm	– 99 fluid ounces per 1000 gallons water
200ppm	– 198 fluid ounces per 1000 gallons water
800ppm	– 792 fluid ounces per 1000 gallons water
1000ppm	– 990 fluid ounces per 1000 gallons water

TABLE OF PROPORTIONS – AVAILABLE CHLORINE	
200 ppm	– .99 fluid ounces per 5 gallons water
800 ppm	– 3.97 fluid ounces per 5 gallons water
1000 ppm	– 4.99 fluid ounces per 5 gallons water
5000 ppm	– 25 fluid ounces per 5 gallons water
10000 ppm	– 50 fluid ounces per 5 gallons water

**Sanitizing (Sanitization of) Nonporous Food Contact Surfaces** - Prepare a sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2 ½ gallons of water to provide approximately 200 PPM available chlorine by weight. Clean all surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

**RINSE METHOD** - A solution of 100 PPM available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water to product approximately 200 ppm available chlorine by weight.

Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight.

Sanitizers used in automated systems may be used for general cleaning but may not be re-used for sanitizing purposes.

**IMMERSION METHOD** – A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water to product approximately 200 ppm chlorine by weight.

Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow sanitizer to drain. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse the equipment with water after treatment and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be re-used for sanitizing purposes.

**CLEAN-IN-PLACE METHOD** – Thoroughly clean equipment after use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 2 oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to insure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. Do not rinse system with potable water prior to use.

**SPRAY-FOG METHOD** – Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Prepare a 600 ppm by thoroughly mixing the product in a ratio of 6 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after each use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate the area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution, with a 200 ppm solution.

**To Sanitize Milking Equipment:** Prepare sanitizing solution as above immediately prior to use. All surfaces to be sanitized should be properly cleaned before application of chlorine solution. Milking utensils should be submerged in the solution for at least 2 minutes and allowed to drain. Do not rinse equipment with water after treatment. If solution contains less than 50-PPM available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200-PPM residual. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

**Sanitizing Porous Food Contact Surfaces:** Prepare a solution of approximately 600 PPM by thoroughly mixing 6 Tbsp. (3 oz.) of this product with 2 1/2 gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600-PPM solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200-PPM sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2-1/2 gallon of water. Prior to using equipment, rinse all surfaces with 200-PPM available chlorine solution. Do not rinse with water and do not soak equipment overnight.

**Spray-Fog Method** Pre-clean all surfaces after use. Use a 200-ppm available chlorine solution to control bacteria, mold or fungi and a 600-ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Prepare a 600-ppm solution by thoroughly mixing the product in a ratio of 6 oz product with 10 gallon of water. Use spray or fogging equipment, which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600-ppm solution, with a 200-ppm solution.

**DISINFECTION OF DRINKING WATER (Public / Individual Systems)**

**PUBLIC SYSTEMS** – Mix a ration of 1 oz. of this product to 100 gallons of water. 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 distributor 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 Primary Drinking Water Regulations. Contact your local Health Department for further details.

**INDIVIDUAL SYSTEMS – 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. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeves opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. 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. Contact your local Health Department for further details.

**AGRICULTURAL USES**

**EGG SHELL SANITIZING** – Thoroughly clean eggs. (Mix approximately 1 Tbsp. (1/2) oz. of bleach per gallon of warm water) (Thoroughly mix 2 oz. of this product with 10 gallons of warm water) to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130° F. Spray the warm water sanitizer so that the eggs are thoroughly wetted. Allow eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be reused to sanitize eggs.

**(FOOD) (FRUIT) & VEGETABLE WASHING** – Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 5 oz. of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables



for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with a sanitizing solution prior to packaging. Rinse all fruit with potable water only prior to packaging.

**Farm Premises** Remove all animals, poultry and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, wall and surfaces of barn, pens, stalls, chutes and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000-ppm available chlorine for a period of 10 minutes. A 1000-ppm solution can be made by thoroughly mixing 11 oz of this product with 10 gallons of water. Immerse all halters, ropes and other types of equipment used in handling and restraining animals or poultry as well as the cleaned forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed areas. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated food racks mangers, troughs automatic feeders and waterer must be rinsed with potable water before reuse.

EPA Reg. No. 55852-2  
Est. Reg. 55852-IL-001

Packaged by:  
Champion Packaging, Inc.  
1840 Internationale Parkway  
Woodridge, IL 60517

Net Weight:

Lot Number:

Optional Label Claims:

- Liquid Chlorinating Product
- Liquid Chlorinator (for Swimming Pool Water)
- Liquid Chlorinating Chemical for Swimming Pools
- Bacteria and Algae Control
- Liquid Swimming Pool Chlorine
- For Swimming Pool and Water Treatment
- For Swimming Pool Chlorination
- Vented Cap, Keep Upright

