

87518-2

12/12/2011

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510-P)
1200 Pennsylvania Avenue N.W.
Washington, D.C. 20460

Reg. Number: 87518-2
Date of Issuance: Dec. 12, 2011

Term of Issuance: Conditional

Name of Pesticide Product: SoRite

NOTICE OF PESTICIDE:

- X Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

HSP USA LLC
3111 Route 38, Suite 11, #310
Mount Laurel, NJ. 08054

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.
Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

- This product (OPP Decision No. 451993) is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:
1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and, submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Change EPA File Symbol 87518-E to EPA Registration Number 87518-2.
3. Add For Industrial Use since you did not provide any Child Resistant Packaging certification.
4. Add a Batch Code placeholder and provide the appropriate production batch, lot number or other code used by the producer to identify product origination on your non-refillable container(s).
5. At the end of the third paragraph under Directions for Use, two sentences have been added: "You must follow the directions on the HyLite or other diluted hydrochloric acid product label. Your HSP USA representative can guide you in the selection, installation, and operation of generation system."
6. On pages 7, 11 and 12 change "hypochlorous acid" to "hypochlorite solution" in accordance with Reregistration Eligibility Decision (RED) document for Sodium and Calcium Hypochlorite Salts.
7. On page 8, change "fog/spring" to "spray/fog".
8. On page 9, add "and Secondary" to National Primary.
9. Under Oil and Gas use, change the advisory word "should" to mandatory word "must".
10. On page 13, correct the spelling of barns as indicated.

Submit one copy of the finished final printed label prior to releasing this product for sale. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the conditionally approved label is enclosed for your records.

Signature of Approving Official:
Monisha Harris, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510-P)

Date: December 12, 2011

SoRite™

Active Ingredient:

Sodium Hypochlorite	12.5%
Other Ingredients.....	87.5%
TOTAL.....	100.0%

Contains 12% Available Chlorine (FAC)

For Industrial Use

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE PRECAUTIONARY STATEMENTS

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing the eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • 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.
If swallowed	<ul style="list-style-type: none"> • 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 inhaled	<p>Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</p>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>NOTE TO PHYSICIAN – Probable mucosal damage may contraindicate the use of gastric lavage.</p>	
<p>FOR ALL ACCIDENTS, CALL CHEMTREC AT 1-800-424-9300</p>	

NET CONTENTS:

ACCEPTED
 with GAOE-11-005
 in EPA Letter 11-011

Batch Code: _____

Manufactured for:
 HSP USA, LLC
 3111 Route 38, Suite 11, #310
 Mount Laurel, NJ 08054
 EPA Reg. No.: 87518-~~1~~2
 EPA Est. No.: 87518-NJ-02

DEC 12 2011

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 and related laws, this product is

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

CORROSIVE: Causes severe skin and eye irritation or chemical burns to broken skin. Cause eye damage. Do not get in eyes, on skin or clothing. Wear Safety glasses or goggles and rubber gloves when handling the product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide 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.

PHYSICAL OR 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.

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal or cleaning of equipment.

PESTICIDE 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 amounts of water.

PESTICIDE DISPOSAL: Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer or other approved disposal facility.

CONTAINER DISPOSAL:

Nonrefillable Container: Do not reuse or refill container. Triple rinse containers (or equivalent) promptly after emptying. Triple rinse as follows:

~~TRIPLE RINSE~~
WATER COMPANY
in EPA Letter D-2-011

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Containers 5 gallons or less: Empty the remaining contents into mixing system and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into 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. Once cleaned, offer for recycling or reconditioning if appropriate.

Containers larger than 5 gallons: Empty the remaining contents into mixing system. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip 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. Once cleaned, offer for recycling or reconditioning if appropriate.

Refillable Containers: Return the container to the point of purchase for reuse with seal intact and in sellable condition. Refill this container with SoRite™ only. Do not reuse this container for any other purpose. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. Cleaning this container before final disposal, empty the remaining contents from this container into mixing system. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DIRECTIONS FOR USE

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

DEC 1 2 2011
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide...

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage as necessary, to obtain required level of available chlorine.

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Directions for Use in the Mechanical Generation of Hypochlorite Solution as a Disinfectant, or for Microorganisms Control and as a Chemical Oxidant in Aquatic Systems. It is intended for use in industrial and commercial applications.

SoRite™ may be used in the mechanical generation of hypochlorite solution as a disinfectant, or for microorganisms control and as a chemical oxidant in aquatic systems. SoRite™ is fed to generation system, which produces an aqueous solution of hypochlorite solution by mixing with diluted hydrochloric acid. You must follow the directions on the HyLite or other diluted hydrochloric acid product label.

Your HSP USA representative can guide you in the selection, installation, and operation of the generation system.

FEED REQUIREMENTS

Feed rates of SoRite™ depend on the severity of contamination and the degree of control desired, i.e. the ppm level of the generated product. The feed rate of both SoRite™ and HyLite™ (diluted hydrochloric acid) are automatically controlled by the generation system, based on the required ppm level of the generated product. For 1000 gallons of water, the table below shows the feed rate for various available chlorine levels of generated product.

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SoRite™ (gallons)	HyLite™ (gallons)	Available Chlorine (ppm)
0.5	0.4	50
1.0	0.7	100
2.0	1.4	200
10	7	1000
55	35	6000

The exact dosage of generated product will depend on the severity of contamination and the degree of control desired, size of the system and residual necessary for effective control.

The dose amount of the generated product is calculated as follows:

$$\text{Dose amount of generated product (gallons)} = \frac{\text{Desired concentration of available chlorine (ppm)}}{\text{Concentration of generated product (ppm)}} \times \text{Total treated water volume (gallons)}$$

ACCEPTED
 THE COMMISSION
 in EPA Letter 2011-01

Make sure to check the ppm level of the generated product before any operation.

DEC 12 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Federal Food, Drug, and Cosmetic Act (FDCA), the EPA is reviewing the pesticide label for this product.

METHOD OF APPLICATION

Hypochlorite solution generation must take place under controlled conditions in the generation equipment.

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For water treatment applications, the water will be treated via side stream injection point. The generated product should be applied in such a manner to ensure adequate mixing and minimal volatilization.

User is responsible for compliance with applicable federal, state and local laws, regarding proper use and disposal of the hypochlorite solution generated. See Pesticide Storage and Pesticide Disposal Directions

SWIMMING POOL WATER DISINFECTION (Commercial Facility Only)

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

For a new pool or spring start-up, super chlorinate by feeding SoRite™ through the generation system to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with test kit. Adjust and maintain pool water pH to between 7.2 and 7.6. Adjust the alkalinity of the pool to between 50 to 100 ppm.

To maintain the pool, add by feeding SoRite™ through the generation system to yield available chlorine residual between 0.6 and 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, super chlorinate the pool by feeding SoRite™ through the generation system to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Re-entry into treated pools is prohibited at levels above 4 ppm due to risk of bodily harm.

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 pool within 24 hours prior to discharge.

WINTERIZING POOLS: While water is still clear and clean, feed SoRite™ through the generation system into the pool, while filter is running, to obtain a 3.0 ppm available chlorine residual, as determined by suitable test kit. Cover pool, prepare heater, filter and heater components for winter, by following manufacturer's instructions.

SPAS, HOT-TUBS, IMMERSION TANKS, ETC. (Commercial Facility Only)

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

SPAs, Hot-Tubs: Feed SoRite™ through the generation system and inject into the tubs to obtain a 5 ppm available chlorine, as determined by a suitable chlorine test kit. Re-entry into treated pools is prohibited above levels of 5 ppm due to risk of bodily harm. Adjust and maintain pool water pH between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the solution. After each use, shock treat with 8 ppm to control odor and algae.

To maintain the water, continue to feed to keep a free chlorine concentration of 5 ppm. Continue to feed to control odor and algae. During extended periods of disuse, feed to maintain a concentration of 3 ppm.

Hubbard and Immersion Tanks: Feed SoRite™ through the generation system and inject to obtain a 25 ppm available chlorine, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH between 7.2 and 7.6. After each use, drain the tank, feed SoRite™ through the generation system to generate 600 ppm solution and circulate this through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths.

Hydrotherapy Tanks: Feed SoRite™ through the generation system and inject to obtain a 1 ppm available chlorine, as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjust and maintain pool water pH between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly and clean before refilling.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

Rinse Method: Feed SoRite™ through the generation system to generate a solution of 100 ppm available chlorine. It 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 ensure that the available chlorine does not drop below 50 ppm.

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Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm, as determined by a suitable test kit, either discard the solution or add sufficient product to re-establish 100 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: Feed SoRite™ through the generation system to generate a solution of 100 ppm available chlorine and feed into an immersion tank. It 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 ensure that the available chlorine does not drop below 50 ppm.

Clean equipment in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintain contact with the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. If solution contains less than 50 ppm, as determined by a suitable test kit, either discard the solution or add sufficient product to re-establish 100 ppm residual. Do not rinse equipment with water after treatment.

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

Flow / Pressure Method: Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine equal to 110% of volume capacity of the equipment. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to ensure contact on all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning / sanitizing process if effluent contains less than 50 ppm available chlorine.

Clean-in-Place Method: Thoroughly clean equipment after use. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine equal to 110% of volume capacity of the equipment. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to ensure contact on all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning / sanitizing process if effluent contains less than 50 ppm available chlorine.

Spray / Fog Method: Preclean all surfaces after use. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. 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.

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With COMMENTS
in EPA Letter Date 2:
DEC 18 2011

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SANITIZATION OF POROUS FOOD CONTACT SURFACES

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Rinse Method: Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine by weight. Clean equipment in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact for at least 2 minutes. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine. Prior to using the equipment, rinse all surfaces with the 200 ppm available chlorine solution. Do not rinse with water after treatment and do not soak equipment overnight.

Immersion Method: Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Immerse equipment in the 600 ppm solution for at least 2 minutes and allow the sanitizer to drain. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine. Prior to using the equipment, immerse all surfaces with the 200 ppm available chlorine solution. Do not rinse and do not soak equipment overnight.

SPRAY / FOG Method: Preclean surfaces after use. Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse the 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. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine. Prior to using the equipment, rinse all surfaces with a 200 ppm available chlorine solution.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

Rinse Method: Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with 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.

Immersion Method: Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine by weight and feed into an immersion tank. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

Spray / Fog Method: Preclean all surfaces after use. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine. Use spray or fogging equipment which can resist hypochlorous acid solutions. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

hypochlorite

ACCEPTED
with COMMENTS
in FEED Letter Dated:

DISINFECTION OF POROUS NON-FOOD CONTACT SURFACES

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For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Rinse Method: Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

Immersion Method: Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine by weight and feed into the immersion tank. Clean equipment surfaces in the normal manner. ^{edit} Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Rinse Method: Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with 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.

Immersion Method: Feed SoRite™ through the generation system to generate a solution of 600 ppm available chlorine by weight and feed into an immersion tank. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

Spray / Fog Method: Feed SoRite™ through the generation system to generate a sanitizing solution of 600 ppm available chlorine. After cleaning, sanitize non-food contact surfaces with the sanitization solution. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse fog / spray equipment with potable water after use. ^{spray / fog} Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

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EPA Letter Dated:

SEWAGE & WASTEWATER EFFLUENT TREATMENT

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria, as determined by the Most Probable Number (MPN) procedure, to ensure that the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfection of secondary waste water effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacteria kill must be emphasized. The MPN of the effluent, which is directly related to the water quality

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standards requirements, must be the final and primary standard and the chlorine residual must be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting waste water disinfection.

1. **Mixing:** It is imperative that the product and the waste water be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the waste water.
2. **Contacting:** Upon flash mixing, the flow through the system must be maintained.
3. **Dosage / Residual Control:** Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

SEWAGE & WASTEWATER EFFLUENT TREATMENT

Effluent Slime Control: Feed SoRite™ through the generation system to generate and apply a solution of 100 to 1000 ppm available chlorine with a metering device at location which will allow complete mixing. Once control is evident, apply a solution of 15 ppm available chlorine.

DISINFECTION OF DRINKING WATER (PUBLIC SYSTEMS)

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Feed SoRite™ through the generation system to generate and inject a solution with a metering device until a chlorine residual of at least 0.2 ppm and no more than 0.6 ppm, is attained throughout the 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.

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PUBLIC WATER SYSTEMS

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Reservoirs: Algae Control: Feed SoRite™ through the generation system to generate and inject a solution with a metering device into the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

Mains: Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while feeding SoRite™ through the generation system to generate solution and inject into the flow. Stop water flow when a chlorine residual of 50 ppm is obtained at the low pressure end of the main section after a 24 hour retention time. When the chlorination is completed the system must be flushed free of all heavily chlorinated water.

with GORDON'S
mild & better disinfectant
DEC 4 9 2011

New Tanks, Basins, etc.: Remove all physical soil from surfaces. Feed SoRite™ through the generation system to generate a 500 ppm available chlorine solution. Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to service .

New Wells: Flush the casing with a 50 ppm solution generated by feeding SoRite™ through the generation system. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

Existing Equipment: Remove equipment from service and thoroughly clean surfaces of all physical soil. Sanitize by 500 ppm available chlorine solution generated by feeding SoRite™ through the generation system. Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution of 1000 ppm available chlorine solution generated by feeding SoRite™ through the generation system. After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Wells: Thoroughly flush contaminated casing with a 500 ppm available chlorine solution generated by feeding SoRite™ through the generation system. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorination 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, continue to add solution until a 50 ppm available chlorine residual has been achieved. Agitate the well water for several hours and take representative water sample. Retreat well if water samples are biologically unacceptable.

Reservoirs: In case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Feed SoRite™ through the generation system to generate and inject a solution with a metering device into the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient solution directly to the reservoir to obtain 0.2 ppm available chlorine residual in all parts of the reservoir.

Basins, Tanks, Flumes etc.: Thoroughly clean all equipment, and then generate a 500 ppm solution by feeding SoRite™ through the generation system, as determined by a suitable test kit. After 24 hours drain, flush, and return to service. If the previous method is not suitable, spray and flush the equipment with a solution of 1000 ppm available chlorine generated by feeding SoRite™ through the generation system. Allow to stand for 2 to 4 hours, flush, and return to service.

Distribution System: Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient solution generated by feeding SoRite™ through the generation system, until a consistent available chlorine residual of at least 10 ppm remains after 24 hour retention time. Use a chlorine test kit.

ACCEPTED
WATER CONTROL DISTRICT
MUNICIPAL WATER DISTRICT

Under the Budget...
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EMERGENCY DISINFECTION AFTER FIRES

For dose amount calculation, please refer to the **FEED REQUIREMENTS** section.

Cross Connection or Emergency Connections: Hypochlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient solution generated by feeding SoRite™ through the generation system, until at least 0.1 to 0.2 ppm available chlorine residual achieved at the point of where the untreated supply enters the regular distribution system. Use a chlorination test kit.

EMERGENCY DISINFECTION AFTER DROUGHTS

For dose amount calculation, please refer to the **FEED REQUIREMENTS** section.

Supplementary Water Supplies: Hypochlorination or gravity feed equipment should be set up on a supplementary line to dose with water to a minimum chlorine residual of 0.2 ppm after a 20 minute contact time. Use a chlorine test kit.

Water Shipped in by Tanks, Tank Cars, Trucks, etc.: Thoroughly clean all containers and equipment, and then generate a 500 ppm solution by feeding SoRite™ through the generation system and spray, rinse with potable water after 5 minutes. During filling of the containers, dose with sufficient amounts of this solution to provide at least 0.2 ppm chlorine residual. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER MAIN BREAKS

For dose amount calculation, please refer to the **FEED REQUIREMENTS** section.

Mains: Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting the solution generated by feeding SoRite™ through the generation system. 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.

with CC...
in EPA Letter Dated:
DEC 12 2011

OIL AND GAS

hypochlorite solution

The ~~hypochlorous acid~~ need to be introduced through a closed mixing / loading and delivery transfer system equipped with a metering device that is appropriate for its intended use.

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For dose amount calculation, please refer to the **FEED REQUIREMENTS** section.

Water Floods and Produced Water

Hypochlorous acid ~~should~~ be added to a water flood system at a point of uniform mixing.

must

Initial treatment: When the system is noticeably contaminated, feed SoRite™ through the generation system to generate a solution to inject into freshly prepared fluid to obtain 10 to 1000 ppm chlorine depending on the severity of the contamination.

Subsequent Dose: When microbial control is evident, feed SoRite™ through the generation system to generate a solution to inject into flood water to obtain 10 to 1000 ppm in the system, or as needed to maintain control.

Drilling, Completion, Frac Fluids, and Workover Fluids

~~Hypochlorous acid~~ should be added to the drilling fluid system at a point of uniform mixing.

hypochlorite solution must

Initial treatment: When the system is noticeably contaminated, feed SoRite™ through the generation system to generate a solution to inject into freshly prepared fluid to obtain 10 to 1000 ppm chlorine depending on the severity of the contamination.

Maintenance Dosage: Maintain a concentration by feeding SoRite™ through the generation system to generate a solution to inject into the additional fluid to obtain 10 to 1000 ppm, or as needed, depending on the severity of the contamination.

Packer Fluids

hypochlorite solution must

~~Hypochlorous acid~~ should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Feed SoRite™ through the generation system to generate a solution to inject into freshly prepared fluid to obtain 10 to 1000 ppm chlorine depending on the severity of the contamination. Seal the treated packer fluid in the wall between the casing and production tube.

hypochlorite solution

Hydrotesting

Water used to hydrotest pipelines or vessels should contain ~~hypochlorous acid~~. Feed SoRite™ through the generation system to generate a solution to inject into the water to obtain 10 to 1000 ppm available chlorine, depending on water quality and length of time the equipment will remain idle.

COOLING TOWER / EVAPORATIVE CONDENSER WATER

For dose amount calculation, please refer to the **FEED REQUIREMENTS** section.

Continuous Feed Method: Initial dose: when the system is noticeably fouled, Feed SoRite™ through the generation system to generate a solution to inject with a metering device to achieve 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by feeding SoRite™ through the generation system to generate a solution to inject into the volume of water lost by blow down to maintain a 1ppm residual. Badly fouled systems must be cleaned before treatment is begun.

PULP AND PAPER MILL PROCESS WATER SYSTEMS

For dose amount calculation, please refer to the **FEED REQUIREMENTS** section.

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with COMMENTS
in EPA Letter Dated:

DEC 17 2011

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Continuous Feed Method: Initial dose: when the system is noticeably fouled, feed SoRite™ through the generation system to generate a solution to inject with a metering device to achieve 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by feeding SoRite™ through the generation system to generate a solution to inject into the volume of water lost by blow down to maintain a 1ppm residual. Badly fouled systems must be cleaned before treatment is begun.

ACQUA...
WATER...
DATE: ~~87518-2~~ 12/20/11

COMMERCIAL LAUNDRY SANITIZERS

Wet fabrics or clothes should be spun dry prior to sanitization. Feed SoRite™ through the generation system to generate a solution of 200 ppm available chlorine. Add the solution into the pre-wash prior to washing fabrics / clothes in the regular wash cycle with a good detergent. Test the level of available chlorine if solution has been allowed to stand. Add more solution if the available chlorine level drops below 200 ppm.

Under the Federal Food, Drug, and Cosmetic Act...

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FARM PREMISES

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Remove all animals, poultry and feed from premises, ^{barns} vehicles and enclosures. Remove all litter and manure from floors, walls, and surface of barns, pens, stalls, and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap and detergent and rinse with water. To disinfect, saturate all surfaces with solution of at least 1000 ppm available chlorine generated by feeding SoRite™ through the generation system, for at least 10 minutes. 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 spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

AGRICULTURE USES

Food Egg Sanitization: Thoroughly clean all the eggs. Feed SoRite™ through the generation system into warm water to generate a warm solution of 200 ppm available chlorine. The sanitized temperature should not exceed 130 degrees F. Spray the warm sanitizer so that the eggs are thoroughly wetted. All the eggs are to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

Fruit and Vegetable Washing: Thoroughly clean all the fruits and vegetables in a wash tank. Feed SoRite™ through the generation system to generate a solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculation sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

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Meat and Poultry Plants: Authorized by USDA for use in Federally inspected meat and poultry. Chlorine may be present in processing water of meat and poultry plants at concentrations up to 5 ppm, calculated as available chlorine. Also, chlorine may be present in poultry chiller intake water, and in carcass wash water at concentrations up to 50 ppm available chlorine. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained. The generation system generates 5 ppm or 50 ppm available chlorine in this tightly controlled manner.

AQUACULTURAL USES

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Fish Ponds: Remove fish from ponds prior to treatment. Feed SoRite™ through the generation system to generate solution to inject into pond to obtain 10 ppm available chlorine. Add more solution to the water if the available chlorine is below 1 ppm after 5 minutes. Return fish to the pond after the available chlorine level reaches zero.

Fish Pond Equipment: Thoroughly clean all equipment prior to treatment. Feed SoRite™ through the generation system to generate solution of 200 ppm available chlorine. Porous equipment should soak for 1 hour.

Maine Lobster Ponds: Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Feed SoRite™ through the generation system to generate a 600 ppm available chlorine solution. Apply so that all barrows, gates, rocks and dams are treated with the solution. Permit high tide to fill the pond and then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobster to pond.

with 200 ppm available chlorine
in 100% better detail:

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended by the FIFRA Act of 1972, 1974, and 1990.

SANITIZATION OF DIALYSIS MACHINES

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

Flush equipment thoroughly with water prior to using this product. Feed SoRite™ through the generation system to generate a 600 ppm available chlorine solution. Immediately use this solution in the hemodialysate system allowing for a minimum contact time of 15 minutes at 20°C. Drain system of sanitization solution and thoroughly rinse with water. Discard and DO NOT reuse spent sanitizer. Rinsate must be monitored with a suitable test kit to ensure that no available chlorine remains in the system.

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This solution is recommended for decontaminating single and multi-patient hemodialysate systems. This product has been shown to be an effective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This solution may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and / or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product must be used in a disinfectant program which includes bacteriological monitoring of the hemodialysate system.

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This solution is not recommended for use in hemodialysate or reverse osmosis (RO) membranes.

This solution 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 solution may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

Consult guidelines for hemodialysate systems which are available from Hepatitis Laboratories, CDC, Phoenix, AZ 85021.

ASPHALT OR SEALED WOOD ROOFS AND SIDINGS

For dose amount calculation, please refer to the FEED REQUIREMENTS section.

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5,000 ppm available chlorine solution generated by feeding SoRite™ through the generation system. Brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.

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to EPA Letter Dated:
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United States Federal Insecticide,
Fungicide, and Rodenticide
Administration
EPA Registration No.

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WARRANTY STATEMENT

HSP USA, LLC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions.

It is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond control of HSP USA, LLC.

To the extent consistent with applicable law, HSP USA, LLC. makes no other express or implied warranties of fitness or of merchantability or any other express or implied warranty.

To the extent consistent with applicable law, in no event shall HSP USA, LLC. be liable for consequential, special, or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, the exclusive remedy of the user or Buyer and the exclusive liability of HSP USA, LLC., for any and all claims, losses, injuries, or damages (including claims based on perform and resulting from the use or handling of this product, shall be the return of the purchase price of the product, or at the election of HSP USA, LLC., the replacement of the product.

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to EPA Letter Dated:

DEC 12 2011

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
19 FIFRA (7 U.S.C. 136) and
the Federal Insecticide,
Fungicide, and Rodenticide Act

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