

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 52374-1	DATE OF ISSUANCE 11/12/84
	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREГИSTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		
NAME OF PESTICIDE PRODUCT		

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Finance Chemical Distribution, Inc.  
 200 N. Arrow Road  
 Salt Springs, FL 34662

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

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

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

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

(a)(7)(C) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires the registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 52374-1" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling to the Agency before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If the conditions are not complied with, the registration of this product is subject to cancellation in accordance with FIFRA sec. 3(a)(2). The use of this product or the product constituent acceptance of these conditions is prohibited.

Signature of the label is on the back of your registration.

*[Handwritten Signature]*  
 for K. P. Astillo  
 Product Manager  
 Manufacturer's Brand

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_



# SODIUM HYPOCHLORITE SOLUTION

## TECHNICAL GRADE

ACTIVE INGREDIENT: SODIUM HYPOCHLORITE.....10%  
INERT INGREDIENTS:.....90%

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMAN AND DOMESTIC ANIMALS

**DANGER.** Corrosive. Will cause severe skin and eye irritation or chemical burns to broken skin. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds or public waterways unless in accordance with a NPDES permit. For guidance, contact the regional office of the U.S. Environmental Protection Agency.

#### PHYSICAL AND CHEMICAL HAZARDS

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

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

### FIRST AID

#### STATEMENT OF PRACTICAL AID

#### DANGER

**IF SWALLOWED,** drink large quantities of milk or gelatin solution. If these are not available, drink large quantities of water. DO NOT give vinegar or other acids. DO NOT induce vomiting. Get prompt medical attention.

**IF CONTACT WITH EYES OCCURS,** flush with water for at least 15 minutes. Get prompt medical attention.

**IF CONTACT WITH SKIN OCCURS,** wash with plenty of soap and water.

### STORAGE AND DISPOSAL

Store this product in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product residues that cannot be used should be diluted with water before disposal in a sanitary sewer. DO NOT reuse container but place in trash collection. DO NOT contaminate food or feed by storage, disposal or cleaning of equipment.

#### DIRECTIONS FOR USE

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

**FOR USE IN BULK STORAGE SITES:** As a Disinfectant or Algaecide in the treatment of municipal water supplies, sewage and waste processing operations in commercial laundry sanitizers, as a Sintericide in Commercial or Industrial Recirculating Cooling waters, by experienced or trained personnel. Such bulk storage containers must not be left unlabeled or accessible to the general public. This product degrades with age, use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

**DANGER KEEP OUT OF REACH OF CHILDREN**

**FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE**

**CONTACT** Advance Chemical For Additional Handling Instruction, Material Safety Data Sheets, Additional Use, and Directions For Additional Uses



**DO NOT WELD, CUT, PUNCTURE OR PRESSURIZE**

Keep away from heat, flame or sparks-after container has been emptied it may contain explosive and harmful vapors and residue-Do not reuse container for any purpose until commercially cleaned.



**ADVANCE CHEMICAL  
Distribution, Inc.**  
EPA REG. NO. 52374-1

For Emergency Assistance  
Call Advance 918-245-6666  
or Chemtrec 800-424-9300

**Net Weight**

530

EPA EST. NO.52374-OK-1

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Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Sanitization of Nonporous Food Contact Surfaces  
Directions for Use

Under the Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for pesticide  
registered under EPA Reg. No.

52374-1

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 provide 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 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 provide approximately 200 ppm available 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 the 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 equipment with water after treatment.

This brochure describes typical specifications on these items listed. The information provided is given in good faith and is based on the data and tests believed to be reliable, however no warranty is expressed or implied regarding the accuracy of the data. The final determination of the suitability of a product is the responsibility of the user.

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. 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 the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to insure contact with 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. Rinse system with potable water prior to use.

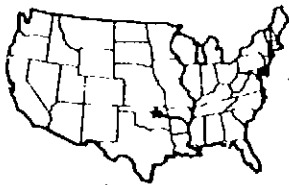
**CLEAN-IN-PLACE METHOD** - Thoroughly clean equipment after use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 2 oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the 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 a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. Rinse system with potable water prior to use.

**SPRAY/FOG METHOD** - Preclean 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 gallons 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.

**DANGER:** SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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**ADVANCE CHEMICAL**

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**PRODUCT SPECIFICATION**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

**SODIUM HYPOCHLORITE SOLUTION**

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, this pesticide  
is registered under EPA Reg. No.

Disinfection of Drinking Water (Emergency/Public/Individual Systems)

52374-1

**PUBLIC SYSTEMS:** Mix a ratio 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 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.

**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 pipesleeve 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. Consult your local Health Department for further details.

**INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS** Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

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INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

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

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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SODIUM HYPOCHLORITE SOLUTION

ACCEL  
with COMMENTS  
EPA Letter Dated

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Emergency Disinfection After Floods  
Direction for Use

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52374-1

WELLS - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 5 oz. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to product 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 available chlorine residual. Aggitare the well water for several hours and take a 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. Chlorinate 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 product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

BASINS, TANKS, FLUMES, ETS. Thoroughly clean all equipment, then apply 20 ox. of product per 5 cu. ft. of water to obtain 500 ppm available chlorine as determined by a suitable test kit. After 24 hours drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 5 Oz. of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

FILTERS - When the sand filter needs replacement, apply 80 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 80 oz. per 20 sq. ft. Water should stand at a depth of 1 ft. above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 80 oz. of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours drain, and proceed with normal backwashing.

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PRODUCT SPECIFICATION

SODIUM HYPOCHLORITE SOLUTION

ACCEPTED with COMMENTS by EPA Letter 1984

Liquid Bleach
Sodium Hypochlorite 10%
Inert Ingredients 90%

NOV26 1984

Sanitization of Porous Food Contact Surfaces
Directions for Use

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for this use, registered under EPA Reg. No.

52374-1

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 6 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean 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. Rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 6 oz. of this product with 10 gallons of water to provide approximately 600 ppm available 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 the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite 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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

Vertical barcode or registration code on the right side of the page.

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SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

Asphalt Or Wood Roofs and Sidings  
Direction for Use

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine solution. Mix 5 oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

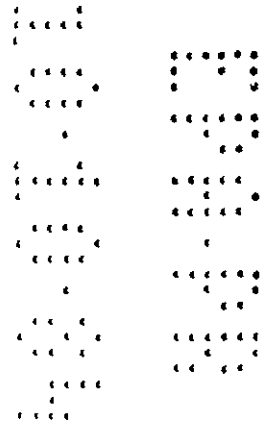
EPA REGISTRATION # 52374-1

ACCEPTED  
with COMMENTS  
in EPA Letter Order

NOV 23 1984

Under the Fungicide, Disinfectant, and Saniticide Act as amended, this product is registered under Reg No

52374-1



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**ADVANCE CHEMICAL**

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**PRODUCT SPECIFICATION**

**SODIUM HYPOCHLORITE SOLUTION**

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

**Emergency Disinfection After Droughts  
Direction for Use**

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.

WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETS. - Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 5 oz. of this product for each 10 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

DANGER: SEE ADDITIONAL PRECAUTIONERY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

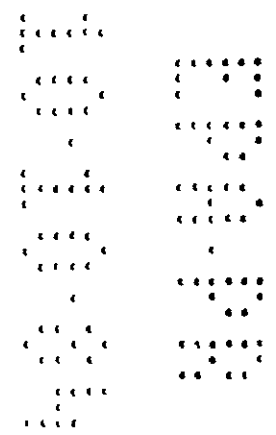
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with COMMENTS  
in EPA Letter Dated:

NOV 26 1984

Under the Fungicide, Insecticide, and Plant Growth Regulator Act as amended, this pesticide is registered under EPA Reg. No.

52374-1

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SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

Artificial Sand Beaches  
Direction for Use

To sanitize the sand, spray a 500 ppm available chlorine solution containing 5 oz. of this product per 10 gal. of water at frequent intervals. Small areas can be sprinkled with a watering can.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

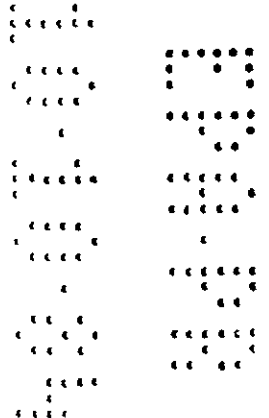
EPA REGISTRATION # 52374-1

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 23 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended by the pesticide  
registration reform act of 1972, EPA Reg. No.  
52374-1

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**SODIUM HYPOCHLORITE SOLUTION**

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

**Agricultural Uses  
Direction for Use**

ACCEPTED  
with COMMENTS  
EPA Letter Dated

**NOV 26 1984**

Under the Insecticide,  
Fungicide, and Rodenticide Act  
amended, this pesticide  
registered with EPA Reg. No.  
**52374-1**

**POST-HARVEST PROTECTION** - Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per tons of potatoes. Thoroughly mix 1 oz. of this product to 2 gallons of water to obtain 50 ppm available chlorine.

Disinfect leafcutting bee cells and bee boards by immersion in a solution containing 1 ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours or until no chlorine odor can be detected. This solution is made by thoroughly mixing 1 Tsp. of this product to 100 gallons of water. The bee domicile is disinfected by spraying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has dissipated.

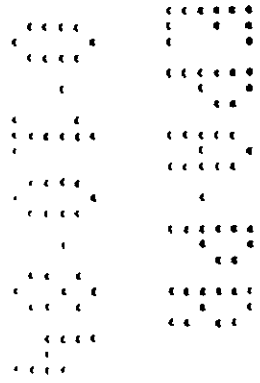
**FOOD-EGG SANITIZATION** - Thoroughly clean all eggs. Thoroughly mix 2 oz. of this product with 10 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs 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 & 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 the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

**DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL**

EPA REGISTRATION # 52374-1

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SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

Emergency Disinfection After Fires  
Direction for Use

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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

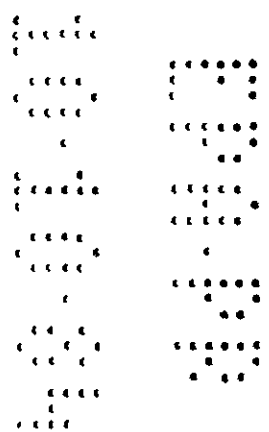
EPA REGISTRATION # 82374-1

ACCEPTED  
with COMMENTS  
EPA Letter Dated:

NOV 26 1984

Under the Fungicide, Insecticide, and Rodenticide Act as amended, this product is a Fungicide, Insecticide, and Rodenticide registered under EPA Reg. No. 82374-1

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ADVANCE CHEMICAL

DEPT. OF HEALTH & HUMAN SERVICES

PRODUCT SPECIFICATION

SODIUM HYPOCHLORITE SOLUTION

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Public Water Systems  
Direction for Use

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, and the pesticide  
registration provisions of EPA Reg. No.

52374-1

RESERVOIRS - ALGAE CONTROL: Hypochlorinate streams feeding 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 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.

NEW TANKS, BASINS, ETS. - Remove all physical soil from surfaces. Place 20 oz. of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

NEW FILTER SAND - Apply 80 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

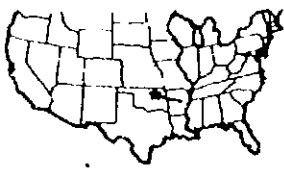
NEW WELLS - Flush the casing with a 50 ppm available chlorine solution of water containing 5 oz. of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under 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, thoroughly clean surfaces of all physical soil. Sanitize by placing 21 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). 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 containing 5 oz. of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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PRODUCT SPECIFICATION

SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

Sewage and Wastewater Treatment  
Direction for Use

EFFLUENT SLIME CONTROL - Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 10 to 100 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 3 oz. of this product with 100 gallons of water.

FILTER BEDS - SLIME CONTROL: Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 80 oz. of product per 20 sq/ft evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

ACCEPTED  
with... TS  
in EPA Letter Dated

NOV 26 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.

52374-1

This brochure describes typical specifications on these items listed. The information provided is given in good faith and is based on the data and tests believed to be reliable, however no warranty is expressed or implied regarding the accuracy of the data. The final determination of the suitability of a product is the responsibility of the user.



SODIUM HYPOCHLORITE SOLUTION

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 23 1984

Sewage & Wastewater Effluent Treatment  
Direction for Use

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended for the pesticide  
regulation of EPA Reg. No.

52374-1

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

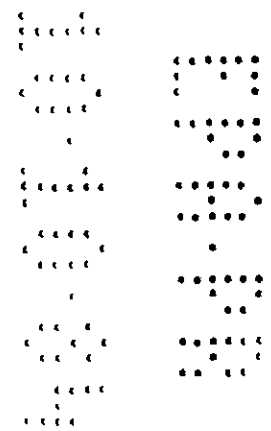
On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting wastewater disinfection.

1. Mixing: It is imperative that the product and the wastewater be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.
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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1



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ACCEPTED  
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in EPA Letter Dated

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Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Emergency Disinfection After Main Breaks  
Direction for Use

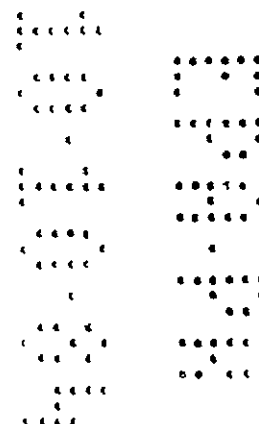
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for use as a pesticide  
registered under EPA Reg. No.

52374-1

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 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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1



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52374-1

Cooling Tower/Evaporative Condenser Water

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

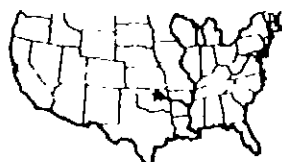
INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeable fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of this product per 1000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

BRIQUETTES OR TABLETS - Initially slug dose the system with 52 oz. of this product per 10,000 gallons of water in the system. Badly fouled systems must be cleaned before treatment is begun. Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1



**ADVANCE CHEMICAL**

**BEST AVAILABLE COPY**

**PRODUCT SPECIFICATION**

**SODIUM HYPOCHLORITE SOLUTION**

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

**Commercial Laundry Sanitizers  
Direction for Use**

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 2 oz. of this product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash 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 of this product if the available chlorine level has dropped below 200 ppm.

**DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL**

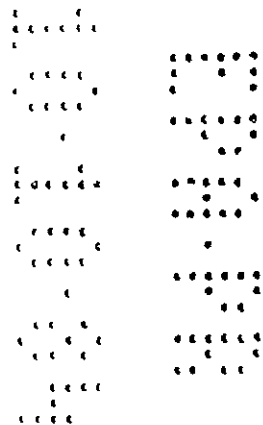
EPA REGISTRATION # 52374-1

ACCEPTED  
with COMMENTS  
EPA Letter Dated

NOV 26 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for pesticides  
registered under EPA Reg. No.

52374-1



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ADVANCE CHEMICAL

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PRODUCT SPECIFICATION

ACCEPTED  
WITH COMMENTS  
by EPA 2/10/84

SODIUM HYPOCHLORITE SOLUTION

NOV 26 1984

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
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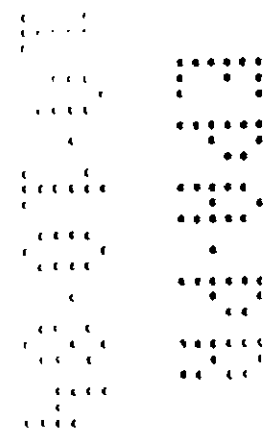
Farm Premises

52374-1

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or transverse by animals or poultry. Empty all troughs, racks and other feeding and 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 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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL.

EPA REGISTRATION # 52374-1



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# PRODUCT SPECIFICATION

## SODIUM HYPOCHLORITE SOLUTION

ACCEPTED  
with COMMENTS  
in EPA Letter dated

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the purpose of  
registered under EPA Reg. No.

52374-1

### Pulp and Paper Mill Process Water Systems Direction for Use

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

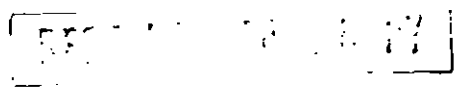
BRIQUETTES OR TABLETS - Initially slug dose the system with 52 oz. of this product per 10,000 gallons of water in the system. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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**SODIUM HYPOCHLORITE SOLUTION**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

**Aquacultural Uses  
Direction for Use**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, this product is  
registered under EPA Reg. No.  
52374-1

**FISH PONDS** - Remove fish from ponds prior to treatment. Thoroughly mix 103 oz. of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.

**FISH POND EQUIPMENT** - Thoroughly clean all equipment prior to treatment. Thoroughly mix 2 oz. of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

**MAIN LOBSTER PONDS** - Remove lobsters, seaweek etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 6,200 oz. of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rock and dam are treated with product. 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 lobsters to pond.

**CONDITIONING LIVE OYSTERS** - Thoroughly mix 5 oz. of this product to 10,000 gallons of water at 50 to 70°F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

**CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS** - Prepare a solution containing 200 ppm of available chlorine by mixing 2 Oz. of product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

**DANGER:** SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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**PRODUCT SPECIFICATION**

**SODIUM HYPOCHLORITE SOLUTION**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

U.S. Federal Insecticide  
Fungicide and Rodenticide Act  
as amended for the purpose  
registered under EPA Reg

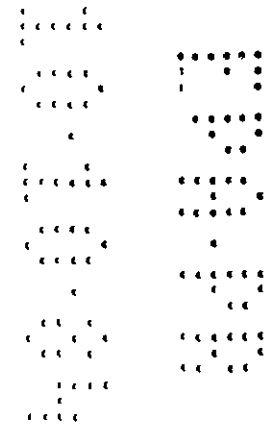
52374-1

**Boat Bottoms  
Direction for Use**

To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 18 oz. of this product to this water to obtain a 35 ppm available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlorine level has dropped to 0 ppm, as determined by a swimming pool test kit.

**DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL**

EPA REGISTRATION # 52374-1



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SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

Sanitization of Nonporous Non-Food Contact Surfaces  
Directions for Use

RINCE METHOD - Prepare a sanitizing solution by thoroughly mixing 2 oz. of the product with 10 gallons of water to provide 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. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 2 oz. of this product with 10 gallons of water to provide approximately 200 ppm available 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 the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite 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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

ACCEPTED  
with COMMENTS  
EPA Letter Dated:

NOV 26 1984

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
register

52374-1

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 52374-1	DATE OF ISSUANCE NOV 26 1984
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT Spectro Hypoclorite	

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
 (Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Advance Chemical Distribution, Inc.  
 290 E. Morrow Road  
 Sand Springs, OK 74063

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

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

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

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

3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 52374-1" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 3(c)(7)(A). You may please for shipment of the product constituted acceptance of these conditions.

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

*[Signature]*  
 A. F. Castillo  
 Product Manager (32)  
 Disinfectants Branch

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
---------------------------------	------



# SODIUM HYPOCHLORITE SOLUTION

## TECHNICAL GRADE

ACTIVE INGREDIENT: SODIUM HYPOCHLORITE.....10%  
INERT INGREDIENTS:.....90%

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMAN AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Will cause severe skin and eye irritation or chemical burns to broken skin. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds or public waterways unless in accordance with a NPDES permit. For guidance contact the regional office of the U.S. Environmental Protection Agency.

#### PHYSICAL AND CHEMICAL HAZARDS

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

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

### FIRST AID

#### STATEMENT OF PRACTICAL AID

#### DANGER

**IF SWALLOWED,** drink large quantities of milk or water solution. If these are not available, drink large quantities of water. DO NOT give vinegar or other acids. DO NOT induce vomiting. Get prompt medical attention.

**IF CONTACT WITH EYES OCCURS,** flush with water for at least 15 minutes. Get prompt medical attention.

**IF CONTACT WITH SKIN OCCURS,** wash with plenty of soap and water.

### STORAGE AND DISPOSAL

Store this product in a cool dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or residues that cannot be used should be diluted with water before disposal in a sanitary sewer. DO NOT reuse container but place in trash collection. DO NOT contaminate food or feed by storage, disposal or cleaning of equipment.

#### DIRECTIONS FOR USE

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

**FOR USE IN BULK STORAGE SITES:** As a Disinfectant or Algaecide in the treatment of municipal water supplies, sewage and waste processing operations in commercial laundry sanitizers, as a Sintericide in Commercial or Industrial Recirculating Cooling waters, by experienced or trained personnel. Such bulk storage containers must not be left unlabeled or accessible to the general public. This product degrades with age, use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

**DANGER KEEP OUT OF REACH OF CHILDREN**

**FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE**

**CONTACT** Advance Chemical For Additional Handling Instruction, Material Safety Data Sheets, Additional Use, and Directions For Additional Uses



**DO NOT WELD, CUT, PUNCTURE OR PRESSURIZE**  
Keep away from heat, flame or sparks after container has been emptied it may contain explosive and harmful vapors and residue. Do not reuse container for any purpose until commercially cleaned.



**ADVANCE CHEMICAL**  
Distribution, Inc.  
EPA REG. NO. 52374-1

For Emergency Assistance  
Call Advance 918-245-6666  
or Chemtrec 800-424-9300

**Net Weight**  
□ 530  
EPA EST NO 52374-OK-1

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Sanitization of Nonporous Food Contact Surfaces  
Directions for Use

Under the Fungicide, and Fertilizer Act  
as amended, for pesticide  
registered under EPA Reg. No.

52374-1

RINSE METHOD - A solution of 100 ppm available chlorine may be used as 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 provide 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 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 provide approximately 200 ppm available 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 the 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 equipment with water after treatment.

This literature describes typical specifications on these items listed. The information provided is given in good faith and is based on the data and tests before. It is reliable, however no warranty is expressed or implied regarding the accuracy of the data. The final determination of the suitability of a product is the responsibility of the user.

## Sanitization of Nonporous Food Contact Surfaces

Page 2

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

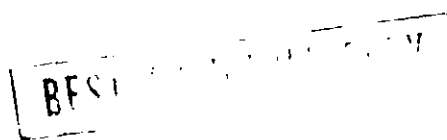
**FLOW/PRESSURE METHOD** - Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 2 oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to insure contact with 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. Rinse system with potable water prior to use.

**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 the 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 a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. Rinse system with potable water prior to use.

**SPRAY/FOG METHOD** - Preclean 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 gallons 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.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1





ADVANCE CHEMICAL

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PRODUCT SPECIFICATION

ACCEPTED  
with COMMENTS  
EPA Letter Dated

SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Under the Fungicide, as amended, Insecticide, Fungicide Act, pesticide EPA Reg. No. 52374-1

Disinfection of Drinking Water (Emergency/Public/Individual Systems)

PUBLIC SYSTEMS: Mix a ratio 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 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.

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 in 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe's 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. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

This brochure describes typical specifications on these items listed. The information provided is given in good faith and is based on the data and tests believed to be reliable. However, no warranty is expressed or implied regarding the accuracy of this data. The final determination of the suitability of a product is the responsibility of the user.



INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

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

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

DEFECT ANALYSIS REPORT

SODIUM HYPOCHLORITE SOLUTION

Available TEL  
with COMMENTS  
EPA Letter Dated

Liquid Bleach  
Sodium Hypochlorite 10%  
Inert Ingredients 90%

NOV 26 1984

Emergency Disinfection After Floods  
Direction for Use

Under Federal Insecticide, Fungicide, and Rodenticide Act  
as amended  
registered  
52374-1

WELLS - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 5 oz. of this product with 10 gallons of water. 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. Aggitate the well water for several hours and take a 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. Chlorinate 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 product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

PASINS, TANKS, FLUMES, ETS. Thoroughly clean all equipment, then apply 20 oz. of product per 5 cu. ft. of water to obtain 500 ppm available chlorine as determined by a suitable test kit. After 24 hours drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 5 Oz. of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

FILTER When the sand filter needs replacement, apply 80 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 80 oz. per 20 sq. ft. Water should stand at a depth of 1 ft. above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 80 oz. of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours drain, and proceed with normal backwashing.

This brochure does not constitute a recommendation on these items listed. The information provided is given in good faith and is based on the data and tests believed to be correct, however no warranty is expressed or implied regarding the accuracy of this data. The final determination of the suitability of a product is the responsibility of the user.