BEOT MENICAULE VOL. EPA REGISTRATION NO. DATE OF ISSUANCE U.S. ENVIRONMENTAL PROTECTION AGENCY 52374-1 OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) TERM OF ISSUANCE WASHINGTON U.C. 20460 NAME OF PESTICIDE PRODUCT NOTICE OF PESTICIDE: REGISTRATION (Under the Federal Insecticide, Fungicide, Second Experience : : and Rodenticide Act, as amended) NAME AND ADDRESS OF REGISTRANT (Include ZIP code) ۲... Tr once Chemical Distribution, Inc. 200 P. Arrow Pead Same formas, M. 74662 L 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 in 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. Its product is londitionally registered in accordance with FIPE, sec. (c) (7) () provided that you: 1. Submit ano/or cite all data required for registration/reception of your product under PIFRA sec. 3(c) (5) when the Agency requires the registrants of similar products to submit such data. 2. Add the phrase "EPA Fedistration No."52374-1" to your cabel refore you in race the product for shipment. 2. Situat five (5) copies of your final printed labelies to one was release the ground for shippent. Refer to the A-79 Durlos at the tachar desortition of final printed labeling. The reputitions are not complied with, the republication of the a estate concentration in actionance with FIPM age, elected in the estate for sound they the product constitution acceptorace of these on a contar edies, of the lace, seen so hist wear respect. Presser Manserr (12) asinfectuats Brad ATTACHMENT IS APPLICABLE SIGNATURE ( F APPROVING OFFICIAL DATE EPA Fam \$570-5 (Rev. 5-76) PREVIOUS EDITION MAY BE USED UNTIL SU. PLY IS EXHAUSTED.

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	ACTIVE II	GREDIENT: SODIUM HYPOCHLORITE GREDIENTS:			
PRECAUTIONARY S	TATEMENTS	FIRST AID	STORAGE AND DISPOSAL		
HAZARDS TO HUMAN ANIMAL	ND DOMESTIC	STATEMENT OF PRACTICAL AID	Store this product in a contidey area, every from direct surfight and hea avoid deterioration. In case of spet, finod areas with large quantities water – Product or initiates that cannot be used should be deleted in		
UANGEN, Corrosive will caller set chemical burns to broken skim. Do not get Wear griggles or lace shield and rubbe product. Wash after handling. Avrid bre ventilated areas as soon as possible. D dissipated	we skin and we initiation or meyes on skin or on clothing rigioves when handling this atting vapors. Vacate ponty cinot return until odors have	DANGER IF SWALLOWED, drink targe quantities of milk or getatin solution. If these ine not available, drink targe quantities of water, DO NOT give vineger or inflar and 3, DO NOT induce vomiting. Get principlined, at attention.	where before disposal in a sanctary server. DO NOT rause contained in place in trash collection. DO NOT containwate food or feed by store disposal or cleaning of equipment DIRECTIONS FOR USE This a violation of federal law to use this product in a manner inconsist with its labeling		
ENVIRONMENTAL HAZARDS: Two product is loaid to fish. Do not discharge into takes 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.		IF CONTACT WITH EYES OCCURS, flush with water hir at least 15 minutes. Get prompt medical attention IF CONTACT WITH SKIN OCCURS, wish with	FOR USE IN BULK STORAGE SITES as a Dis or Algaeriste in the time"ment of municipal water supplies, sen wastel processing operations, in commercial laundry sensitu Stimicride in Commercial or Industrial Recirculating Cooling v		
PHYSICAL AND CHEMIC/ STRONG OXIDIZING AGE according to table directions. Mixing the teig antimonia faces are 1 or chemical gents atc. I will refease chlorine gas which mucous membranes	AL HAZARDS INT. Mix only with water a product we corganic marter (is g. animonia, acids, deter sisterilating theyes, lungs, and	plenty of knep and water	especienced or trained personnel. Such bulk storage contenens m not be tell unlabeled or accessible to the general public. This prof depictes with sign use a chlorine tast kis and increate dosane necessary in obtain the required level of available chlorine.		
NOTE: This product degrades with an increase doeage, as necessary, in obtain hibrene	use a chlorine test kit and the required level of available FOR IN(	DANGER KEEP OUT OF REACH OF CHIL	DREN D USE		
CONTACT Advance Cher	nical For Additional H	andling Instruction, Material Safety Data Sheets. Ad	ditional Use, and Directions For Additional Uses		
	Keep awa at may cc	DO NOT WELD, CUT, PUNCTURE OR PRESSURIZE by from heat, flame or sparks-after container has been amp intain explosive and harmful vapors and residue-Do not re container for any purpose until commercially cleaned.	ptied euse		
ADVANC Distributi	E CHEMICAL on , Inc.	For Emergency Assistance Call Advance 918-245-6666 or Chemtrec 800-424-9300	Net Weight		
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Sodium Hypochlorite 10% Inert Ingredients 90%

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Sanitization of Nonporous Food Contact Surfaces Directions for Use

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 th roughly with the sanitizing solution, maintaining contact with the san tizer 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 apple similarly 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 t'e dolution or, add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

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**Advance Chemical Distribution Inc.** 

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Sanitization of Nonporous Food Contact Surfaces

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 o 110% of volume cupacity of the euqipment by mixing the product in a tio 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 grain 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 si 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 Jolution 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.

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SODIUM HYPOCHLORITE SOLUTION

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Liquid Bleach Sodium Hypochlorite 107 Inert Ingredients 90%

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Disinfection of Drinking Water (Emergency/Public/Individual Syntems) and Tich Reg. No.

523 PUBLIC SYSTEMS: Mis 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 bruch. 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. A-ter 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 turbity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. Thos 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 flughter 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.

Disinfection of Drinking Water (Emergency/Public/Individual Systems) Page 2

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS Artesian wells generally do not require disinfection. If analyses indicate persistant 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. <u>Prior</u> to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the <u>clarified</u>, 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 <u>should</u> 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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BEST AVAILABLE COPY PRODUCT SPECIFICATION

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## SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

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Emergency Disinfection After Floods Direction for Use

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. Aggitate the well water for several h  $\approx$  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 by ''' 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 2' hours. When filter beds can be backwashed of mud and silt, applu 80, pz. 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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## Emergency Disinfection After Floods

DISTRIBUTION SYSTEM - Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after a 24 hour retention time. Use a chlorine test kit.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

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## SODIUM HYPOCHLORITE SOLUTION

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Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

ADVANCE CHEMICAL

Sanitization of Porous Food Contact Surfaces Directions for Use

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RINSE M"THOD - Prepare a sanitizing solution by thoroughly mixing 6 oz. of this roduct with 10 gallons of water to provide approximately 600 ppm ave table 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.

SPRAMION 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, choroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

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## SODIUM HYPOCHLORITE SOLUTION

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Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

ADVANCE CHEMICAL

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

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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, 1 UCKS, 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.

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## PRODUCT SPECIFICATION

## 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

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## SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

> Agricultural Uses Direction for Use

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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 o.l 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  $130^{\circ}$ 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 ppe 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 vegatables with the sanitizing solution prior to packaging.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

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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

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## **PRODUCT SPECIFICATION**

## SODIUM HYPOCHLORITE SOLUTION

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Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

> Public Water Systems Direction for Use

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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 a-1 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<sup>\*</sup> a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.<sup>\*\*\*\*\*</sup>

EXISTING EQUIPMENT - Remove equipment from service, thoroughly clear surfaces of all physical soil. Sanitize by placing 21 oz. of this ' product for each 5 cubic feet dapacity (approximately 500 ppm avallable 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. '...'

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Liquid Bleach Lodium Hypochlorite 10% Inart Ingredients 90%

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Sewage and Wastewater Treatment Direction for Use ACCPPTPD with 5 TS In El'A Letter Dated:

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EFFLUENT LIME 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

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## SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach 10% Sodium Hypochlorite Inert Ingredients 90%

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Sewage & Wastewater Effluent Treatment Direction for Use

5 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  $1^{\circ}$  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.

Contacting: Upon flash mixing, the flow through the system 2. must be maintained.

 Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chloinre 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.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL DANGER:

EPA REGISTRATION # 52374-1

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## SODIUM HYPOCHLORITE SOLUTION

ACCEPTED with COMMENTS in EPA Letter Dated:

NOV26 1984

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

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Emergency Disinfection After Main Breaks Direction for Use

Under the Proceed Dependence Fungicide, and R : Je Act 🗰 aniended, for 🦾 stieide registered under EPA neg. No. <u>52374-</u>

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 and 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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with COMMENTS in EPA Letter Dated:

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

## NOV 26 1984

Under the Federal Interticide, Fungicide, and Koder, e.de Act is amended, for the restricte registered under East or No.

## Cooling Tower/Evaporative Condenser Water

SLUG FEED METHOD - Initial Dose: When system is noticably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 50 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 daity, or as needed to maintain control and keep the chloring residual at 1 ppm Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticably couled apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain r to 10 ppm available chlorine. Aply 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, all 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 helf (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 noticable fouled, apply 52 to 104 oz. of this product per 10,000 gallons cf water in the system to obtain 5 to 10 ppm available chlorine. Sebsequent 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. Sebsequent 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 STATEM NTS ON SHIPPING LABEL

FPA REGISTRATION # 52374-1

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## SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 107 Inert Ingredients 90%

> Commercial Laundry Sanitizers Direction for Use

Wet fabrics or clothes should be spun dry prior to sanitization Thoroughly mix 2 cz. 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 and dropped below 200 ppm.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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## **PRODUCT SPECIFICATION**

## SODIUM HYPOCHLORITE SOLUTION

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Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

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Under the Federal Insecticity Fungicide, and Restricter Adass amended, for the pesticide registered under EPA Reg Na 1 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, mengers, 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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## SODIUM HYPC HLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90% ACCEPTED with COMMENTS in EPA Letter Island

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Fungicide, and Robert 1. Act as amended, for the pisture.

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Pulp and Paper Mill Process Water Systems Direction for Use

SLUG FEED METHOD - Initial Dose: When system is noticably 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 noticably 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 noticably 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 treatmen 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 10,00 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 m st cleaned before treatment is begun.

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%

> Aquacultural Uses Direction for Use

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FISH PONIS - 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 c cles to flush the pond before to urning lob ters to pond.

CONDITIO ING LIVE OYSTERS - Thoroug 1y mix 5 oz. of this product to 10,000 gallons of water at 50 to 74 2 to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so t'at it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the comperature 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. Doi: not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

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Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

> Boat Bottoms Direction for Use

Pederal Insecticide 1**U**. a Rodenticide V F... as the left for the peaks registered under EPA Ro-

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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 Porous Non-Food Contact Surfaces Direction for Use

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## NOV 26 1984

Under the Federal Activities, Fungicide, and Active Actives as amended, for a conderegistered under r.1.3 Reg. No. 523.74-/

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. Do not rinse equipment with water after treatment and do not soak equipment overnight.

INMERSION 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 - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 6 oz. of this 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. 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 ADDIT'ONAL FRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGRISTRATION # 52374-1



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#### SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodtum Hypochlorite 10% Inert Ingredients 90%

> Disinfection of Nonporous Non-Food Contact Surfaces Directions for Use

bod Contact Surfaces Jse Lution by thoroughly mixing water to provide approximately

RINSE METHOD - Prepare a disinfection solution by thoroughly mixing 6 oz. of this product with 10 gallons of water to provide approximately 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 - Prepare a disinfection 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 d\_sinfection solution for at least 10 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

DANGER: SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SHIPPING LABEL

EPA REGISTRATION # 52374-1

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#### SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 107 Inert Ingredients 907

## Sanitiz tion 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.

[MMERSION 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

EPA Letter Dated:
NOV26 1984
Under e Federal Insecticide, Pungicide, and Rodentiede Act as amended, for the perforde register

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Advance Chemical Distribution Inc.

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U.S. ENVIRONMENTAL PROTECTION AGENCY	52374~1	101 9 1 100
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NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
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Actance Chemical Distribution, 1 200 E. Werrow Road Sand Springs, OK - 74063	Inc.	
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HOTE: Changes in labeling formula differing in substance f submitted to and accepted by the Registration Division prio product always refer to the above U.S. EPA registration num On the basis of information furnished by the registrant, the	rom that accepted in connection r to use of the label in commen- ober.	on with this registration must ree. In any correspondence or by Registered/Recagistered 1
the Federal Insecticide, Fungicide, and Rodenticide Act.	above laimed perticide is here	by Registered/Religintered t
A copy of the labeling accepted in connection with this Re	gistration/Reregistration is re	turned herewith.
Act is not to be construed as giving the registrant a right to by others. Triss product is conditionally re L(C)(7)(A) provided that you: 1. Submit ano/or cite ill data	exclusive use of the name or egistered in accordant required for registi	to its use if it has been covence with PIPFW, sec.
of your product under PIFPA sec. 3( registrants of similar products to a	c)(5) when the <b>Ayen</b> cy submit such d <b>ata.</b>	requires sla
2. Add the phrase "EPA Registra you release the product for shipment	11105 No. \$52374-1* to 	s your label tefore
3. Submit five (5) copies of ye release the product for shipment. A description of final printed labelin	our final printed lab Refer to the A+79 End Og+	nga ne ter s tarte Josire ter s tarte
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# SODIUM HYPOCHLORITE SOLUTION

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## PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMAN AND DOMESTIC ANIMALS

DANGER: Corrosive will cause severe shin and eye irritation or chemical burns to broken skin. Do not get in eyes on skin or en clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash after handling. Avried breathing vapors. Vacate peorly ventilated oreas as seen as possible. Do not return until eders have dissipated.

ENVIRONMENTAL HAZAILOS: This product is tostic to Ash. Do not discharge into lakes streams points or public waterways unless in accordance with a NPDES period. For guidance, contact the regional office of the U.S. Environmental Protection Agency.

PHYSICAL AND CHEMICAL HAZARDS STRONG OXIDIZING AGENT: Mrs. inty with water according to label directions. Mixing the product with organic matter (a.g. animania, faces, etc.) or chemicals (a.g. animania, acids, detergents, zic.) will release cherine gas which is unlating to type, lungs, and miceous membranes.

NOTE: This product degrades with age. Use a chlorine test kill and microsis detage, as necessary, in obtain the required level of available. Morine

#### FIRST AID

#### STATEMENT OF PRACTICAL AID

#### DANGER

IF SWALLOWED, rink targe quarrities of milk or getatin solution. If these are not available drink large quarrities of water. DO NOT give vinagar or other acids. DO NOT induce vometing. Get prohibit med - al attention.

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

IF CONTACT WITH SKIN OCCURS, wash with menty of same and water

#### STORAGE AND DISPOSAL

Sinte this product in A contributive are a weak from direct sunlight and heat to avoid deterioration. In case of spatt Rhod areas with large quantities of water. Product or projects that cannot be used should be detected with water beford dispital in a samtary sever. DO NOT pose remainer but plack in trach collection. DO NOT centerioniate feed or feed by starage disposal or cleaning of equipment.

#### DIRECTIONS FOR USE

It is a violation of federal law to use this preduct in a maximir incensistant with its Tabeling

FOR USE IN BULK STORAGE SITES as a Disinfactant or Algaerate in the treatment of municipal water supplies, service and water processing operations, in commercial faundry sanctures, as a Similarity of the transfer personnel. Such bulk, storage, conteness must not he left unlabeled or accassible to the general public. This profiles dependent with use, as chosine test kit and excesse docane, and mercessary to obtain the required le of divisible chloring.

DANGER KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY - NOT FOR HOUSE HOLD USE

CONTACT Advance Chemical For Additional Handling Instruction, Material Safety Data Slieets, 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 emplied

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 Chemitrec 800-424-9300 Net Weight , D 530 EPA EST NO 52374-0K-1



Sanitization of Nonporous Food Contact Surfaces Directions for Use Fungicide, and for posticide registered under 1.12 Reg No. 5.9.374

RINSE METHOD - A solution of 100 ppm available chlorine may be used 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 16 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. Selutions 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 evailable chlorine, as determined by a suitable test kit, either discard the dolution or, add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

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(918) 245-6666

Sanicization of Nonporous Food Contact Surfaces

Sanitizers used in automated systems may be used for general cleaning but may not be re-us  $\epsilon$  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 euqipment 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% c 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 sys em si 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

LIA REGISTRATION # 52374-1

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ADVANCE CHEMICAL

ACCEPTED with COMMENTS EPA Letter Dated

## SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90% NOV 2 6 1984 Under the lange entroide Act Fungicide of pesticide

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

PUBLIC SYSTEMS: Mis 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 chlorin 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 i orther details.

INDIVIDUAL SYSTEMS: DUG WELLS Upon control ion of the casing (lining) wash the interior of the casing (liping with a 100 ppm available chlorine solution using a stiff bruch. This solution can be made by thoroughly mixing 1 oz. of this product i to 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipestonic e opening and the pipeline. Wash the exterior of the pump cylinder are 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 uniter. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS Run pump until water is as free from turbity as possible. Pour a 100 opm available chlorine sanitizing solution into the well. Thos 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 vlinder with the sanitizer. Drop pipeline into well start pump and public water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 mours flucture well until all traces of chlorine have been removed from the water beep wells with high water levels may necessitate the use of specific methods for introduction of the sanitizer into the well. (Insult your local Health Department for further details.

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Disinfection of Drinking Water (Emergency/Public/Individual Systems) Page 2

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

EMERGFNCY 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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Advance Chains of Destructor Inc

#### SODIUM HYPOCHLORITE SOLUTION

Liquid Bleach Sodium Hypochlorite 10% Inert Ingredients 90%

#### A) STEL with COMMENTS EPA Letter Dated

## NOV 2 6 1984

## Emergency Disinfection After Floods Direction for Use

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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 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 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.

FILTER Then the sand filter needs replacement, apply 80 oz. of this product for each 150 to 200 cubic feet of sand. When the filter  $35^{+++}$ severely contaminated, additional product should be distributed over the ornice at the rate of 80 oz. per 20 sq. ft. Water should standed at a depth of 1 ft. above the surface of the filter bed for 4 to 24  $\pm$ henrs. When filter beds can be backwashed of mud and silt, applu 80, bz 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,

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