|  | 15410-6                          |                   |
|--|----------------------------------|-------------------|
| US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460   | EPA REGISTRATION NO.<br>43410-69 | NOV 1 6 1995      |
|  | TERM OF ISSUANCE                 | 1 100 1 0 1989    |
| NOTICE OF PESTICIDE: REGISTRATION REREGISTRATION   | NAME OF PESTICIDE PRODUCT        |                   |
| (Under the Federal Insecticide, Fungicide,<br>and Rodenticide Act, as amended)   | Agri-Clor X                      |                   |
| NAME AND ADDRESS OF REGISTRANT (Include 21P code)  | <del></del>                      |                   |
|  |                                  |                   |
| Agri-Chem, Inc.  |                                  |                   |
| P.O. Box 607477  |                                  |                   |
| Orlando, FL 32860-7477   |                                  |                   |
| L  | . 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 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 a product 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/cite all data required for registration of your<br>product under FIFRA section 3(c)(5) when the Agency requires all<br>registrants of similar products to submit such data.  |                                  |                   |
| 2. Make the labeling char<br>the product for shipment:   | ges listed below be              | efore you release |
| a. Add the phrase "EPA Re  | gistration No. 434               | 10-69."           |
| b. In the "If Swallowed" instructions on the front panel,<br>delete the words, "drink large quantities of milk or<br>gelatin solution" and "If these are not available." In<br>addition, expand the last sentence of the paragraph to<br>read, "Get prompt medical attention."   |                                  |                   |
| <ul><li>c. Replace the text of the with the following:</li></ul>   | ne Environmental Ha              | zards section     |
| This pesticide is to<br>Do not discharge eff<br>lakes, streams, pond   | fluent containing t              | his product into  |

1046

EPA Form 8570-6 (Rev. 5-76)

in Sign

ATTACHMENT IS APPLICABLE
SIGNATURE OF APPROVING OFFICIAL

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

DATE

. Hyb

waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

- d. In the "Pulp and Paper Mill Process Water Systems" section of the Directions for Use, some of the text was inadvertently omitted. The sentence ending with the words "residual at 1 ppm" should read, "Subsequent dose: When microbial control is evident, add 12 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."
- 3. Submit a certification of child-resistant packaging, following the instructions given in §157.34(b) of the enclosed <a href="Federal Register">Federal Register</a> excerpt; or add a statement to the label such as, "For industrial/commercial/institutional use only."
- 4. Re-submit your Confidential Statement of Formula within 75 days, with the minor revisions indicated in the "Confidential Statement of Formula" enclosure.
- 5. 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. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

Ruth G. Douglas Product Manager (32) Antimicrobial Program Branch Registration Division (7505C)

# Agri-Clor X

#### **ACTIVE INGREDIENTS:** Sodium Hypochlorite ...... 10% INERT INGREDIENTS: 90% TOTAL: ...... 100%

# KEEP OUT OF REACH OF CHILDREN DANGER

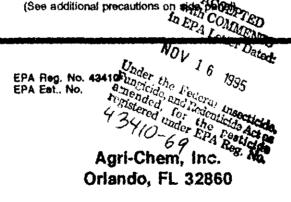
STATEMENT OF PRACTICAL TREATMENT (First Aid)

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.

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 medical attention.

(See additional precautions on side partition of Ep. Connection



Net Contents \_\_\_\_\_U. S. Gallone

## **PRECAUTIONARY STATEMENTS**

Hazards to Humans and Domestic **Animals** DANGER

Corrosive may cause severe skin and eye zritation or chemical burns to broken akin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vecate poorty vertilated areas as soon as possible. Do not return until strong 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 parmit. For guidance contact the regional office of the U.S. Environmental Protection Agency.

#### PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with chemicals (e.g. animonia, acids, detergents, etc.) or organic mater (e.g. trine, feces, ect.) will release chlorine gas which is kritisting to eyes, lungs and mucous namitranea.

## **DIRECTIONS FOR USE**

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

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

### STORAGE AND DISPOSAL

Storage: Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water,

Disposal:Product or rinsate that cannot be used should be diluted with water before disposal in a sankary sewer. Do not reuse container but place in trash collection. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

BEST AVAILABLE COPY

## PRODUCT USE

#### AGRICULTURAL USES

FRUIT & VEGETABLE SANITIZING - Thoroughly clean all frosts and vegetables in a wash tank. Tacroughly mix 6 oz. of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After desiming the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating solution, Spray rians vegetables with the sanitizing solution sprior to packaging. Ristse fruit with potable water only prior to packaging.

#### FRUIT AND VEGETABLE WASHING

For the recommended concentration of available chlorine for various commodities to be treated see the \*\* nle below. To obtain a 100 ppm solution of chlorine add I gallon of Agri-Clor X to 1000 gallons of water. Use ACI Clor-just to control pH is recommended.

For Citrus Canter Quarantine. Use of a 200 ppm chlorine solution at pH 6.0 to 7.5 is achieved by 2 gallons of Agri-Clor X in 1000 gallons of water with 1.2 gallons of ACI Clor-just. (Amount of buller is dependent upon starting pH of the water used. Apply for 2 minutes using a raistable spray or drip treatment.

For washing fruits and vegetables in accordance with 21 CFR 173.315 Agri-Clor X may be used to assist in the washing of fruits and vegetables at a concentration not to exceed 0.2% (2000 ppm). Such use must be followed by a possible water riuse.

Posacces can be saidized after cleaning and prior to storage by spraying with a sanitizing solution at a level of I gallon of sanitzing solution per ton of potances. Thoroughly mix 1 oz. of this product to 2 gallons of water to obtain 500 ppm available chlorine.

| Commodity                       | ppm available chlorine to |
|---------------------------------|---------------------------|
| Apple                           | 150-200                   |
| Artichoker                      | 100-150                   |
| Asperagos                       | 125-150                   |
| Brossels Sprouts                | 100-150                   |
| Carrots                         | 100-200                   |
| Cauliflower                     | 300-400                   |
| Celery                          | 100-110                   |
| Cherry                          | 7.5-100                   |
| Citres Fruits                   | 25-200                    |
| Chopped Cabbage or Lettrice (1) | 80-100                    |
| Cucumbers                       | 300-350                   |
| Green Onions                    | 75-120                    |
| Melogs - Flow through wesher    | 100-150                   |
| Meiogs - Hydrocooler            | 10                        |
| Mushrooms (2)                   | 100-200                   |
| Peaches, Nectarines and Plants  | 50-100                    |
| Pears (Without Buffer)          | 200-300                   |
| Peppers Flow through washer     | 300-400                   |
| Peppers - Dump tank             | 100-135                   |
| Potatoes - Flow through washer  | 65-125                    |
| Potatoes - Pit system           | 100-150                   |
| Radisber                        | 100-150                   |
| Stone Fruit - Hydrocooler       | 30-75                     |
| Tomatoes - Flow through washer  | 300-350                   |
| Tomstoes - Dump tank            | 20-120                    |

contributation process.

2 - After treatm critical segminon process.

2 - After treatment with the chlorisated water, the musbrooms must be treated with 0.2% Sodium bisulfue (autionidum treatment) to prevent browning

Disinfect leafouting bee cells and bee boards by impersion in a solution containing I ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and day for 4 to 5 hours or until no chlorine door can be detected. This solution is smale by thoroughly mixing I The of this product to 200 gallons of water. The bee domicile is disinfected by praying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has

FARM PREMISES: Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barus, pens, stalls, choics and other facilities occupied or transversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rises with water. To distinfect, satures 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 12 or. of this product with 10 gallous of water. Interest all balters, ropes and other types of equipment used in headling and restraining animals or poultry, as well as the cleaned forks, shovels and someons was for removing litter and manure. Ventilate buildings, cars, bosts and other closed spaces. Do not bosts livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, avonglas, automatic feeders, fountains and waterers must be rissed with potable water before reuse.

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AQUACULTURAL USES
FISH PONDS - Remove fish frost ponds prior to greatment. Thoroughly mix 106 oz. of this
product 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

reaches area is below 1 ppm arrar 3 missies. Research rain to pond arrar the available chloring level reaches area.

FISH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. Thoroughly mix 6 oz. of this product to 20 gallons of water to obtains 200 ppm available chloring. Porous equipment should soak for 1 hour.

MARINE LOBSTER PONDS - Remove lobsters, seaweed etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 60 gallons of this product to 10,000 gallons of water to obtain at least 600 ppm sveilable chloring. Apply so that all barrows, gazes, rock and dam are treated with product. Permit high tide to fill the pond and these close gates. Allow water to stand for 2 to 3 days until the svailable chlorine level reaches zero. Open gates and allow 2 tidal cycles to flight the pond before returning lobsters to pond

CONDITIONING LIVE OYSTERS. Thoroughly mix 6 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.

30 F.
CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing
200 ppm available chlorine by mixing 3 oz. of this 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.

SWIMMING POOL WATER DISINFECTION: For a new pool or spring start-up, superchlorinate with 54 to 108 oz. of product for each 10,000 gations of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm. To maintain the pool, add marually or by a feeder device 12 oz. of this product for each 10,000 gallous of water to yield an available chlorine residual between 0.6 to 1.0 ppm by weight. Stabitzed pools should maintain a retidual of 1.0 to 1.5 ppm available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers

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Frequency of water treatment will depend upon temperature and number of swimmers.

SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HOT-TUBS - Aprly 5 or, of product per 1000 gullons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test bit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 5 or; of product per 1000 gullons of water over the surface to maintain a chlorine concentration of 5 ppm. After each use, shock treat with 10 or of this product per 500 gullons of water to maintain a 3 ppm chlorine concentration. HUBBARD AND IMMERSION TANKS - Add 6 or of this product per 200 gullons of water before parient use to obtain a chlorine residual of 25 ppm, as determined by a smithle test bit. Add 98 and maintain the water pH to between 7.2 and 7.6. After each use drain the task Add 6 or of this product to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then times out the solution. Cean tank thoroughly and dry with cleme cloths. HYDROTHERAP ANKS - Add 1 or; of this product per 1000 gullons of water to obtain a chlorine residual or pn, as determined by a nulable chlorine ten kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjum and maintain the water pH to between 7.2 and 7.6. Operste pool filter custiments!

FOOD PROCESSING PLANTS
FOOD BGG SANITZATION - Thoroughly clean ail eggs. Thoroughly mix 6 oz. of this product
with 20 gallons of warm water to produce a 200 ppon available coloring solvation. The maintine
temperature should not excound 130 ff. Spray the warm sanitzer so that the eggs are thoroughly
wested. Allow the eggs to thoroughly dry before casing or breaking. Do. of apply a penalte water
rinte. The solution should not be re-used to sanitze eggs.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES: RINSE METHOD. A solution of 100 ppm swillable chierine gay be used in the sanitizing solution if a chlorine must be test. I available. Solutions commissing as initial concentration of 100 ppm privalshy chlorine must be test. I and adjusted periodically to invure that the available chlorine does not drop below. Op in Prepare a 100 ppm sentiting solution by thoroughly mixing 1.5 ox of thir product with 10 gallous of water to provide approximately 200 pp in available chlorine by weight. Clean equipment surfaces in the normal manner. Frior to use, class till sentitions to determine the sanitizing solution by maintaining connect with the sanitizing solution, maintaining connect with the sanitizing for a lasst a lassification for solution constant less than 50 ppm available chlorine, as determined by a suitable test kis, either discussion or add sufficient product to resemblish a 200 ppm residus. Do not runse equipment water after treatment and do not sonk equipment overnight.

Sanitizers used in setometed systems may be used for general cleaning but may 1 for sanitizing purposes.

Sanitizers used in automated systems may be used for general extension of a chieful perposes.

IMMERSION METHOD - A solution of 100 ppm available chieful may be used in the solution if a chieful test his is available. Solutions containing as i itial c a satration of 10 available chieful may be used and adjusted periodically to instea the a sainble chieful does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by the respirate product with 10 gallous of water. If no test his is available, prepare a sensitizing solution by theoroughly mixing 3 ost, of this product with 10 gallous of water to provide sporezimmely 200 ppm swallable chieful by the gallous of water to provide sporezimmely 200 ppm swallable chieful by the sanital sander. Prior to use, immerte equipment in the maintaing solution for at least 2 minutes and allow the sensitizer to drain. If solution contains less than 50 ppm swallable chieful, as determined by a raticable test kit, either discard the solution or add sufficient product to recombinish a 200 ppm residual. Do not rinse equipment with water after treatment.

Sanstiers used in automated systems may be used for general cleaning but may not be re-used for assisting purposes.

FLOW/PRESSURE METHOD - Disassemble equipment and thoroughly clean after use. Assemble equipment is not to use. Prepare a volunt of a 200 ppm available chlorine sanstizing solution against to 110% of volume capacity of the equipment by mixing the product, in a rustion of 3 set of product with 10 gallons of water. Pump solution through the system total full flow is obtained at all emmenties, the system is completely filled with the sansitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to instruct contact with all internal surfaces. Remove some classing solution from drain valve and user with a chlorine two kit. Repost entire classing/sansitzing process if effluent cambriastent than 50 ppm available chlorine, solution speak to 110% of volume capacity of the equipment by mixing the product is a ration of 3 or, of product with 10 gallons of water. Pump solution through the system stable chlorine smalling solution of a control of the sansitate and all air is removed from the system. Close drain valves and hold under pressure for at least 10 mixing the product is a ration of 3 or, of product with 10 gallons of water. Pump solution through the system stable chlorine smalling solution from drain valve and test with a chlorine test bit. Repost entire cleaning/sansitzing process if effluent contacts to instruce to instruce that all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test bit. Repost entire cleaning/sansitzing process if effluent contacts of surface solution to control bacterio, mold and fungi and a 600 ppm solution to control bacteriophage. Prepare a 260 ppm sansitzing solution of water. Preserve a 600 new solution by

17.00

moroughly mixing the product in a ratio of 8 pz. product with 10 galless of water. Use apray or fogging equipment which can remin hypochlorus solutions. Always empty said risses provy fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess similizer to drain. Vacate uses for at least 2 booss. Prior to using equipment, riese all strinces treated with a 600 ppm solution with a 200 ppm soluti

SANITIZATION OF POROUS FOOD CONTACT SURFACES: RINSE METHOD

SANITIZATION OF PORCUS FOOD CONTACT SURFACES: RINSE METHOD - Prepare a 600 ppm solution by thoroughly mixing 8 oz. of this product with 10 gallous of water. Clean surfaces is the normal manner. Risse all surfaces thoroughly with the 600 ppm solution, maintaining contact for at least 2 minnter. Prepare a 200 ppm smittings notation by thoroughly saizing 3 oz. of this product with 10 gallous of water. Prior to using equipment, risse all surfaces with a 200 ppm swaliable chlorine solution. Do set eight equipment with water after treatment and 60 not soulk apripment overnight.

IMMERSION METHOD - Prepare a 600 ppm solution by thoroughly mixing, is an immersion tank. 8 oz. of this product with 10 gallous of water. Clean equipment in the normal manner: lamente equipment in the 600 ppm solution for at hout 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 3 oz. of this product with 10 gallous of water. Prior to using equipment, immerse all surfaces with a 200 ppm swaliable chlorine sonatizing solution of sufficient size by thoroughly mixing 8 oz. of the product with 10 gallous of water. Use spray or fogging equipment overnight.

SPRAYFOG METHOD - Preclean all surfaces after use. Prepare a 600 ppm swaliable chlorine snatizing solution of sufficient size by thoroughly mixing 8 oz. of the spray or fogging equipment with connecsit hypochlorite solutions. Always empty and rinse aprayfog equipment with potable water after use. Theroughly spray or fog all surfaces using the set of water. Solution by thoroughly mixing 8 oz. of this product with 10 gallous of water.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES: RINE METHOD - Prepare a saniting solwing by thoroughly mixing 3 or, 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, rinne all surfaces thoroughly with the sanitizing solution, steintaining contact with the sanitizer for at least 2 minutes. Do not rinne equipment with water after treatments and do not so sole equipment oversight. IMMERSION METHOD - Prepare a minitizing solution by thoroughly mixing, in an immersion tank, 3 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment in the normal gasaner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinne enjapunest with water after treatment. SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient since by thoroughly mixing the product in the ratio of 3 or, product with 10 gallons of water. Use spray or forging equipment which can resist hypochlorize solutions. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sentitizer to drain. Vacante area for at least 2 bowen. SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES:

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES: DISINFECTION OF MONPOROUS NON-FOOD CONTACT SURFACES: RINNE METHOD. Prepare a disinfecting solution by thoroughly mining 8 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, risse all surfaces theroughly with the disinfecting solution, maintaining contact for at least 10 minutes. Do not note on the manner water after treatment and do not soak equipment were after treatment and do not soak equipment oversight. IMMERSION METHOD - Prepare a disinfecting solution by thoroughly mixing, in an important to task, 8 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean on uipment in the anomal manner. Prior to use, immerse equipment in the 600 ppa, solution for at least 10 minutes and allow the sanitizer to drain. Do sot risse equipment with water after treatment.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES.
RINSE METHOD - Prepare a sanizing solution by thoroughly mixing 8 cm of this product with 10 gallons of water to provide approximately 600 ppm svailable chlorine by weight. Clean equipment surfaces in the aromal manner. Prior to use, rinse all surfaces thoroughly with the sanizing solution, maintaining contact with the maintime for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight. IMMERSION METHOD - Prepare a sanizing solution by thoroughly mixing, is an immersion tank. 8 cm of this product with 10 gallons of water to provide approximately 600 ppm svailable chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanisting solution for at least 2 minutes and allow the sanistize to drain. Do not rinse equipment with water after treatment.

SPRAYFOG METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in the ratio of 8 or, product with 10 gallons of water. Use spray or fogging equipment which can resist appocharite solutions. Always empty and riase sprayfog equipment which can resist appocharite solutions. Always empty and riase sprayfog equipment with potable water after use. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitize to drain. Vacate area for at least 2 hours.

SEWAGE & WASTEWATER EFFLUENT TREATMENT

The disinfaction of sewage effluent clust be evaluated by determining the total number of SANITIZATION OF POROUS NON FOOD CONTACT SURFACES

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Vacate area for at least 2 hours.

SEWAGE & WASTEWATER EFFLUENT TREATMENT.

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

On the average, satisfactory disinfection of secondary wavewater effluent can be obtained when the chloriuse residual is 0.5 ppm after 15 ministes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill most be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and prinsary 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.

I Mixing it is importative that the product and the wastewater be instantaneously and completely flash airceft on 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 Dotage Residual Control Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a productemined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact.

SE AND WASTEWATER TREATMENT

EFFLUENT SLIME CONTROL. - Apply a 100 to 1000 ppen available chlorine solution at a
location which will allow consplete enizing. Prepers this sociation by satisface 7 to 125 or or
this product with 100 gallons of water. Once control is evident, apply a 15 ppen available
chlorine solution. Prepers this solution by mixing 4 or, of this product with 100 gallons of

water.

FILTER BEDS - SLIME CONTROL: Remove filter from service, drain to a depth of 1 ft, show filter sand, and add 104 oz. of product per 20 sq/ft eventy over the surface. Wait 30 minutes before draining water to a level that is even with the sap of the filter. Wait for 4 to 6 hourt before completely draining and backwashing filter.

DISTRECTION OF DEINKING WATER (FMERGENCY/PURLIC/INDIVIDUAL)

SYSTEMS)
PUBLIC SYSTEMS: Mix a ratio of 1.5 or of this product to 100 galleans of water. Begin feeding this solution with a hypochlorinator until a five available chlorine residuel of at least 0.2 ppm and no more than 0.6 ppm is manimed throughout the distribution system. Check water frequency with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drikking Water Regulations. Contact your local Health Department for further dethis: INDIVIDIAL SYSTEMS: DUG WELLS - Upus completion of the casing (lining) wash the interior of the casing (lining) with a 100 ppm available chlorine notation using a stiff brush. This solution may be made by thoroughly staking 1.5 or, of this product with 10 gallons of water. After covering the well, pour the sentitizing solution into the well through both the pipesherve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water smit strong oder of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well tunit all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

further details.

DNDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS - Run pump

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further details.

InDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS - Run pump until water is as free from mebidity as possible. Pour a 100 ppm available chlorine sanktizing solution into the well. This solution may be made by theroughly mixing 1.5 o. 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. West the extension of the pump cylinder also with the sanitizing solution. Drop pipeline into well, wast 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 ws. "I-voth may pocestizate the water special methods for insreduction of the sanitizer into the well. Consuk your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS - Artesian wells generally do not require disinfection. If analyses indicate presistent constamination, 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 sanktizer, remove al suspended material by filtration or by allowing it to settle to the bottom. Decant the clerified, contaminated water to a clean container and add 10 drops of this product to 20 gallons of water. Allow the treated water to mand for 30 minutes, Properly treated water to bottle have a stight chlorine color, if not, repeat the design and allow the water to stand an additional 15 minutes is more allowed.

PUBLIC WATER SYSTEMS

PUBLIC WATER SYSTEMS
RESERVOIRS - ALGAE CONTROL: Hypochlorizate arrams feeding the reservoir.
Suitable feeding points abould be selected on each framm at least 50 yards spatream from the points of entry into the reservoir.
MARS - Thoroughly flush section to be sestized by discharging from hydrams. Permit a water flow of at least 2.5 feet per minote to continue under pressure while injecting this product by means of a hypochlorizator. Stop water flow when a chlorizate residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorization is completed, the system stust be flushed free of all heavily chlorizated trater.

calonisms tweet.

NEW TANKS, BASINS, ETC. - Remove all physical sail from surfaces. Place 25 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 flesh with potable water

said resurt to service.

NEW FILTER SAND - Apply 100 oz. of this product for each 150 to 200 cubic feet of send.

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 waser containing 6 or 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 againton. The well should stand for several hours or overnight under chloritation. It may then be pumped antil a representative raw water sample is obtained. Bacterial examination of the water will indicate whether

further treatment is secessery.

EXISTING EQUIPMENT - Remove equipment from service, thoroughly clean surfaces of all physical scil. Sentitue by placing 26 oz of this product for each 5 cubic feet capacity (approximately 500 ppm swellable chiorine). Fill to working capacity end let mand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution constaining 6 oz. of this product for each 5 gallons of water (approximately 1000 ppm swellable chiorine). After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS
WELLS: Thoroughly flush consuminated casing with a 500 ppm available chlorine solution Prepere this solution by mixing 6 or; of this product with 10 gallons of water. Backwish the well to increase yield and reduce turbidity, adding sufficient chlorineting solutions to the backwish 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. Aguste the well for several hours and take a representative water sample. Recent well if water samples are histografically unancreatable.

biologically unacceptable.

RESER VORES In case of contamination by overflowing streams, establish Bypochlor inating stations upstream of the reservoir Chlorinate the inlet water until the source reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test his. In

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case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chiorise residual in all parts of the reservoir. BASINS, TANKS, FLUMES, ETC. - Thorospolity cleans all againstead, then apply 25 etc. of this product for each 5 cubic feet of water to clusis 500 ppm available chiorise, as determined by a suitable chiorise test kit. After M hours drain, flush, and return to service. If the previous treatment is not suitable, apray or flush the equipathent with a solution containing 6 or, of this product for each 5 gallons of water (1000 ppm available chiorine). Allow to stand for 2 to 4 hours, flush and return to service. FILTERS. When the sand filter needs replacement, apply 100 or, of this product for each 150 to 200 cubic fost of send. When the filter is seweely contaminated, additional product about de distributed over the surface of the filter bed for 4 to 24 hours. When filter beds as a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and sift, apply 100 or, of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and sift, apply 100 or, of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter mud. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours drain, and presend with normal backweshing.

DISTRIBUTION SYSTEM - Flush repaired or replaced section with water. Establish a hypochlorizating station and apply sufficient product neith set is consistent available chlorise rendual of at least 10 ppm remains after a 24 hour retention time. Use a chlorice test kit EMERGENCY DISTRIBUTION AFTED FIRES.

EMERGENCY DISINFECTION AFTER FIRES.
CROSS CONNECTIONS OR EMERGENCY CONNECTIONS - Hypochlorization or gravity feed equipment should be set up note the intake of the untreated water supply. Apply sufficient product to give a chlorate residual of at least 0.1 to 0.2 ppm at the point where the antreated supply enters the regular distribution system. Use a chlorane test kit.

EMERGENCY DISINFECTION AFTER DROUGHTS
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 at least 0.1 to 0.2 ppm at the point where the unremed supply enters the regular distribution system. Use a chlorine test kit.

WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC. - Thoroughly clean all commercy and equipment. Spray a 500 ppm swellable chlorine and rinse with possible water starts? 5 minutes. This solution is made by mixing 6 os. 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 0.2 ppm chlorine residual. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER MAIN BREAKS
MAINS - Before assembly of the repaired section, firsth our mind and soil. Permit a water
flow of at least 2.5 feet per minute to continue tunder pressure while injecting this product by
means of a hypochlorinatur. Stop water flow when a chlorine residual text of 50 ppm is
obtained at the low pressure end of the new main accordance at 24 hour retention time. When
chlorination is completed, the system must be flushed free of all beauty chlorinated water.

chlorination is completed, the system must be flushed free of all beavity chlorinated water.

COOLING TOWER/EVAPORATIVE CONDENSER WATER
SLUG FEED METHOD - Initial dose: When system is noticeably fouled, apply 54 to 108
or of this product per 10,000 galitous of water in the system to obtain from 5 to 10 ppm
sveilable chlorine. Repeat until control is achieved.

Subsequent Dose. When microbial control is evident, add 12 or of this product per 10,000
galitous of water in the system daily, or as needed to maintain control and keep the chlorine
evadual at 1 ppm. Badly fouled systems must be despeed before treatment is begun.

INTERMITTENT FEED METHOD - laiting dose: When system is noticeably fouled, apply
54 to 108 or. of this product per 10,000 gallons of water in the system to obtain from 5 to 10
ppm sveilable chlorine. Apply half (or 17), 14, or 15) of the initial dose when half (or 17).

144, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose. When microbial control is evident, add 12 or, of this product per 10,000
gallons of water is the system to obtain a 1 ppm residual. Apply half (or 1/3., 144, or 1/5) of
the 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 dose when system is noticeably fouled, apply 54
to 108 or, of this product per 10,000 gallons of water in the system has been lost by
blowdown.

Subsequent Dose. Maintain this treatment level by starting a continuous feed of 1 or, per

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. 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.

LAUNDRY SANITIZERS
IN SOAK DNG SUDS - Thoroughly mix 3 or of this product to 10 gallons of wash water to provide 200 ppm swallable chlorine. Wait 5 minutes, then add somp or detergent. Immerse leaundry for at least 11 minutes prior to starting the wash/rinse cycle.

DI WASHING SUDS - Thoroughly mix 3 or of this product to 10 gallons of wash water containing clother to provide 200 ppm available chlorine. Wex 5 minutes, then add some or detergent and start the wash/rinse cycle.

Commercial Lannery sanitizers. We febries or clothes should be spun dry prior to seatilization. Thoroughly mix 3 oz of this product to 10 galloss of water to yield 200 ppm available chlorine. Promptly after mixing the sentitizer, add the solution into the prewash prior to westing fabrica/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 mm?

PULP AND PAPER MILL PROCESS WATER SYSTEMS
SLUG FEED METHOD - Initial dose: When system is nouceably fouled, apply 54 to 108
oz of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until outrol is noticered control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before

BOAT BOTTOMS

BOAT BOLLOMS.
To control stutte on bost bostoms, sting a plastic tarp under boat retaining enough water to cover the fouled bostom area, but not allowing water to enter the enclosed area. This envelope should contain approximately 500 gallons of water for a 14 look bost. Add 22 or of this product to this water to obtain a 35 ppm available obtaine concentration. Leave immresed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlimne.

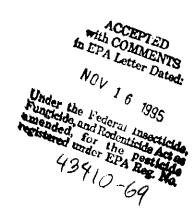
level has dropped to 0 ppm, as determined by a swimming pool test kin

ARTIFICIAL SAND BEACHES

To senitize the mand, apray a 500 ppm available chlorine solution containing 6 od. of this product per 10 gailous of water at frequent intervals. Small areas can be aprinkled with a watering can.

Seller warrants that this material conforms to the ingredient statement on the label and is reasonably fit for the purposes referred to in the Directions for Use. No other warranty, express or implied, is made. This includes my other express or implied warranty of FITNESS or of MERCHANTABILITY, and no sgent of Saller, is authorized to do so except in writing, with a specific reference to this warranty. Any duringes arising from a breach of this warranty shall be limited to direct demages, and shall not include consequential damages, such as loss of profits or values.

been an experience



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