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

SEPA United States Environmental Protection Office of Pesticide Programs

Tom Magrecki Vertex Chemical Corporation 11685 Manchester Road St. Louis, MO 63131 DEC 30 2009

FILE COPY

Subject: VERTEX CSS-12 EPA Reg. No.: 9616-7 Application Dated: October 2, 2009 Receipt Dated: October 6, 2009

Dear Mr. Magrecki:

The labeling for the product referred to above submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended (FIFRA) is accepted subject to the comments/conditions listed below.

Conditions:

1. The routes of exposure under the First Aid section must appear in the following order: If In Eyes, If On Skin Or Clothing, If Inhaled, If Swallowed.

2. Revise the "Hazards to Humans and Domestic Animals" statement as follows:

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

3. Revise the Ingredient Statement as follows:

Active Ingredient:

Sodium Hypochlorite	12.5%
Other Ingredients	<u>87.5%</u>
Total	.00.0%

4. The dosage rates for 15ppm and 16ppm in the "Table of Proportions" are incorrect. The dosage rates for 15ppm and 16ppm are (14 fluid ounces per 1000 gallons of water) the exact same for both. There are no use directions that correlate to the 16ppm. Therefore, 16ppm has been removed from the label.

5. There are no dosage rates or contact times under the "Sanitizing Rinse" section of the proposed label. You must move the dosage rates and contact times from the label to page 3 of the Master label.

6. The "Hand Sanitizing" claim has been removed from page 26 on the label. This is a FDA claim which cannot appear on a FIFRA label.

General Comment:

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at <u>Henson.Wanda@epa.gov</u> or on (703) 308-6345.

Sincerely,

Wanda Y. Hensor Acting Product Manager – Team 32 Regulatory Management Branch II Antimicrobials Division (7510P)

VERTEX CSS-12[®]

A SODIUM HYPOCHLORITE SOLUTION FOR SANITIZATION IN THE DAIRY, FOOD PROCESSING, FOOD SERVICE, AND WATER TREATMENT INDUSTRIES AND ALGAE CONTROL IN SWIMMING POOLS, WATER TREATMENT, PUBLIC WATER SUPPLIES AND WASTE WATER SYSTEMS.

ACTIVE INGREDIENT:	
SODIUM HYPOCHLORITE.	12.5%
OTHER INGREDIENTS	87.5%

UN1791, Hypochlorite Solution, 8 Corrosive Material, PGIII

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID STATEMENT

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for further treatment advice.
- If swallowed:
- Call a poison control center or doctor immediately for further treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by poison control center or doctor.
- Do not give anything by mouth to an unconscious person.
- If inhaled:
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial
- respiration, preferably by mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.
- HOT LINE NUMBER

Have the product container or label with you when calling a poison center or doctor, or going for treatment. Contact 1-800-222-1222 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

See Back Panel for Additional Precautionary Statements.

Transport upright never in passenger area. Protect rugs or upholstery.

CONTENTS: 1 GALLON (3.78L), 96 FL. OZ. , 2.5 GALLONS (9.46L) , 3 GALLONS, 4 GALLONS (15.14L), 5 GALLONS (18.92L), 15 GALLON (56.77L), 30 GALLON, 50 GALLON (189.25L), 55 GALLON (208.17L), 220 GALLON, 250 GALLON, 300 GALLON, 320 GALLON, 330 GALLON

EPA REG. NO 9616-7

EPA EST. 9616-IL-1;IA-1;TN-1

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 0 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 96/6 - 7

INDOAUTIONANI STATEMENIS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER: Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

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

ENVIRONMENTAL HAZARDS: This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the equirements 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.

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 dosage, as necessary, to obtain the required level of available chlorine.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

VERTEX CSS-12 STORAGE: Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer, in accordance with state & local regulations. VERTEX CSS-12 DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

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CONTAINER HANDLING: (ALL OTHER LABELS) (marketing label will include only applicable container handling instructions) (When check-off box format is used on label, filler will mark appropriate box.)

NONREFILLABLE CONTAINER-DO NOT reuse or refill this container. Clean container promptly after emptying. To clean container: fill container ¼ full with water. Replace the closure or plug the opening of the container. Rotate the schtainer, making:suig to rinse all surfaces. Turn the container upside down. Add the rinsate to the application equipment or mix tank or store rinsate for later use or disposal. Allow 30 seconds for rinsate to drain. Repeat this procedure two more times. [Offeccontainer for recycling if available or dispose of in a sanitary landfill, or by other procedure allowed by state & local authorities.

REFULABLE CONTAINER-Refill this container with VERTEX CSS-12 only. Do not reuse this container for any other purpose. Clean container promptly after emptying. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container: fill container ¼ full with water. Replace the closure or plug the opening of the container. Rotate the container, naking sure to rinse all surfaces. Turn the container upside down. Add the rinsate to the application equipment or mix tank or store rinsate for later use or disposal. Allow 30 seconds for rinsate to drain. Repeat this procedure two more times. Differ container for recycling if available or dispose of in a sanitary landfill, or by other procedure allowed by state & local authorities.

DAIRY FARMS - Use 200 ppm solution of VERTEX CSS-12. See Table of Proportions and Instruction Sheet.

YOOD AND E: XIRY - Ariter cleaning & potable water rinse, and before use, sanitize all nonporous surfaces with 200 ppm /ERTEX CSS-12 for two minutes. For all porous surfaces clean all surfaces in the normal manner. Rinse all surfaces horoughly with the 600 ppm solution maintaining contact for at least two minutes. Prepare a 200 ppm sanitizing olution. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Do not rinse. lee Table of Proportions. Surfaces must be adequately drained prior to contact with food. Allow to air dry. lee Instruction Sheet. For mold control of nonporous surfaces a spray rinse of 200 ppm is recommended. lee Instruction Sheet. See Table of Proportions.

ESTAURANTS AND TAVERNS - After washing with dishwashing detergent and rinsing with potable water, immerse tensils in 200 ppm solution of VERTEX CSS-12 for at least 2 minutes. Allow utensils to air dry. See Instruction Sheet **AACHINE DISHWASHING TERMINAL RINSE SANITATION** - As a terminal sanitizing rinse for precleaned food utensils, djust automatic dispensing equipment to provide a use solution of 100 to 200 ppm available chlorine according to equirements of Public Health Authorities. Use solution should be tested frequently with a suitable chlorine test it to ascertain that the rinsate strength does not fall below 50 ppm. In the absence of a test kit a starting oncentration of 200 ppm should be used. See Table of Proportions. See Instruction Sheet. **OTTLES** - After cleaning with potable water and immediately before filling, sanitize precleaned bottles with a 100 ppm vailable chlorine to determine if rinsate has fallen below 50 ppm during use, a starting concentration of 200 ppm hould be used. Allow thorough draining and air dry. See Instruction Sheet.

EGG WASHING - Use a 240 ppm solution of VERTEX CSS-12. See Instruction Sheet. See Table of Proportions.
EGG SANITIZING - Use a 200 ppm solution of VERTEX CSS-12. See Instruction Sheet. See Table of Proportions.
EGG DESTAINING - Use a 250 ppm solution of VERTEX CSS-12. See Instruction Sheet. See Table of Proportions.
FRUIT AND VEGETABLE WASHING - Pre-rinse fruits and vegetables with water to remove soil materials and then horoughly clean in a wash tank. Soak or spray fruits and vegetables with a 25 ppm chlorine solution. See Table of Proportions.
Fruits and vegetables with a 25 ppm chlorine solution. See Table of Proportions.

COOLING TOWER / CONDENSER WATER - See Instruction Sheet.

SWIMMING POOL WATER DISINFECTION - For a new pool or spring start-up, superchlorinate to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 and 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm. (See Table of Proportions) To maintain the pool, add manually or by a feeder device to yield an available chlorine residual between 0.6 to

1.0 ppm by weight. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers. (See Table of Proportions)

Every 7 days, or as necessary, superchlorinate the pool to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1.0 to 4.0 ppm. Re-entry into treated pools is prohibited above levels of 4 ppm due to risk of bodily harm. (See Table of Proportions) WINTERIZING POOLS - While water is still clear & clean, obtain while filter is running a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacurers' instructions. (See Table of Proportions) SPAS, HOT TUBS, IMMERSION TANKS, ETC. - See Instruction Sheet. HUBBARD AND IMMERSION TANKS, ETC - See Instruction Sheet. HYDRO THERAPY TANKS - See Instruction Sheet. SEWAGE AND WASTEWATER EFFLUENT TREATMENT - See Instruction Sheet. SEWAGE AND WASTEWATER TREATMENT - See Instruction Sheet. DISINFECTION OF DRINKING WATER - (Emergency/Public/Individual Systems). See Instruction Sheet. PUBLIC WATER SYSTEMS - See Instruction Sheet. EMERGENCY DISINFECTION AFTER FLOODS - See Instruction Sheet. EMERGENCY DISINFECTION AFTER FIRES - See Instruction Sheet. ACCEPTED EMERGENCY DISINFECTION AFTER DROUGHTS - See Instruction Sheet. with COMMENTS EMERGENCY DISINFECTION AFTER MAIN BREAKS - See Instruction Sheet. EMPLOYEE HAND CARE - See Instruction Sheet.

in EPA Letter Dated: DEC 30 2009.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 19616-7

(proportions are only provided on the marketing label for those use sites that are used and include the requested ppm level)

TABLE OF PROPORTIONS - AVAILABLE CHLORINE 2-.6 ppm - 1 fluid ounce per 2000 gallons water 1.0 ppm - 2 fluid ounces per 2500 gallons water 1.5 ppm - 4 fluid ounces per 2500 gallons water 3.0 ppm - 3 fluid ounces per 1000 gallons water 4.0 ppm - 4 fluid ounces per 1000 gallons water 5.0 ppm - 5 fluid ounces per 1000 gallons water 10 ppm - 9 fluid ounces per 1000 gallons water 10.0 ppm - 21 fluid ounces per 1000 gallons water 15 ppm - 14 fluid ounces per 1000 gallons water 15 ppm - 14 fluid ounces per 1000 gallons water

TABLE OF PROPORTIONS - AVAILABLE CHLORINE

- 25 ppm 22 fluid ounces per 1000 gallons water 35 ppm – 31 fluid ounces per 1000 gallons water 50.0 ppm – 45 fluid ounces per 1000 gallons water 100.0 ppm – 45 fluid ounces per 1000 gallons water 100 ppm – 89 fluid ounces per 1000 gallons water 200 ppm – 1 fluid ounce per 5 gallons water 200 ppm – 178 fluid ounces per 1000 gallons water 200 ppm – 213 fluid ounces per 1000 gallons water 240 ppm – 213 fluid ounces per 1000 gallons water 250 ppm – 212 fluid ounces per 1000 gallons water
- TABLE OF PROPORTIONS AVAILABLE CHLORINE 500 ppm - 5 fluid ounces per 10 gallons water 600 ppm - 533 fluid ounces per 1000 gallons water 800 ppm - 4 fluid ounces per 5 gallons water 800 ppm - 5 fluid ounces per 5 gallons water 1000 ppm - 888 fluid ounces per 5 gallons water 5000 ppm -22 fluid ounces per 5 gallons water 10000 ppm -45 fluid ounces per 5 gallons water

Do not apply this product through any type of irrigation system. This product is authorized by USDA for use in federally inspected meat and poultry plants.

BATCH CODE:

STATE AND LOCAL REGULATIONS - consult your dealer, state or local health authorities for additional information. Manufactured By VERTEX CHEMICAL CORPORATION, St. Louis, MO 63131

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 30 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9616-7

INSTRUCTIONS FOR APPLICATION OF VERTEX CSS-12

SWIMMING POOL WATER DISINFECTION

or a new pool or spring start-up, superchlorinate (see table of proportions) to yield 5 to 10 ppm available chlorine by weight. Check the level of vailable chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to etween 50 to 100 ppm.

o maintain the pool, add manually or by a feeder device (see table of proportions) to yield an available chlorine residual between 0.6 to 1.0 ppm y weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity f the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

ivery 7 days, or as necessary, superchlorinate the pool (see table of proportions) to yield 5 to 10 ppm available chlorine by weight. Check the svel of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1.0 to 4.0 ppm. Re-entry into treated pool is rohibited above levels of 4 ppm due to risk of bodily harm.

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

VINTERIZING POOLS - While water is still clear & clean, while filter is running, obtain a 3 ppm available chlorine residual (see table of roportions), as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' istructions.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 (1 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9616-7

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SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

PAS/HOT-TUBS: See table of proportions to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test t. 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 s well as reduce the efficiency of the product. To maintain the water, see table of proportions to maintain a chlorine concentration of 5 ppm.

fter each use, see table of proportions and apply product to raise to 16 ppm available chlorine to control odor and algae. Do not enter spa or b until chlorine concentration is back to 5 ppm. Re-entry into treated pools is prohibited above levels of 5 ppm due to risk of bodily harm.

uring extended periods of disuse, see table of proportions and add VERTEX CSS-12 to maintain a 3 ppm chlorine concentration.

UBBARD & IMMERSION TANKS: See table of proportions to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust nd maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Prepare a bucket of water with 1000 ppm solution (see table of roportions) and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly a with clean cloths.

YDROTHERAPY TANKS: See table of proportions to obtain a chlorine residual of 1 ppm, as determined by a suitable chlorine test kit. Pool nould not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter ontinuously. Drain pool weekly, and clean before refilling.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 0^{-2000} Under the Federal Insecticide, Fungicide, and Rodenticide Actas umended, for the pesticide, period under EPA Reg. No. 1961

SANITIZING RINSE

OOD AND DAIRY PROCESSORS: VERTEX CSS-12 may be used to sanitize all equipment, utensils, pipes, pans, tanks or flat surfaces which re hard nonporous and will not absorb sanitizer solution but which do come in contact with food products.

or effective sanitization, all surfaces must be wet thoroughly. Depending on equipment setup, immersion or flooding is best. A heavy spray is cceptable if properly applied to stationary equipment.

ross food particles and soil must be removed by a pre-flush or pre-scrape as necessary prior to sanitizing.

anitizers for all surfaces not always requiring a rinse - Before using these compounds, food products and packaging materials must be removed om the room or carefully protected. A potable water rinse is not required following use of these compounds for sanitizing previously cleaned ard surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains which can adulter have a deleterious effect on edible products. These compounds may be used for microbial control on ceilings, floors, and walls at oncentrations considerably higher than those allowed for sanitizing food contact surfaces without a potable water rinse unless, in the opinion of e Inspector-In-Charge, such use may result in contamination of food products. A potable water rinse is required following use of these ompounds under conditions other than those stated above. The compounds must always be used at dilutions (see table of proportions) and cording to applicable directions provided on the EPA registered label.

o not re-use solution. Provide fresh solution for each application.

AIRY FARMS, RESTAURANTS AND TAVERNS: All equipment utensils, etc. to be sanitized must first be pre-scraped or pre-flushed, or if ecessary pre-soaked in order to remove gross food particles, soil or other organic substances. A thorough washing with a compatible detergent recommended, followed by potable water rinse prior to sanitization.

> ACCEPTED with COMMENTS in EPA Letter Dated: DEC 3 # 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. / 9616-7

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

INSE METHOD: A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions ontaining an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine bes not drop below 50 ppm. See table of proportions and prepare a 100 ppm solution. If no test kit is available, see table of proportions and prepare a sanitizing solution to provide approximately 200 ppm available chlorine by weight.

lean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with re 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 plution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak quipment overnight.

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

*I*MERSION METHOD: A solution of 100 ppm available chlorine (see table of proportions) may be used in the sanitizing solution if a chlorine st kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure le available chlorine does not drop below 50 ppm. See table of proportions and prepare a 100 ppm sanitizing solution. If no test kit is available, se table of proportions and prepare a 100 ppm sanitizing solution. If no test kit is available, se table of proportions and prepare 200 ppm available chlorine by weight.

lean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to rain. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient roduct to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

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

LOW/PRESSURE METHOD: Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use repare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment. See table of roportions. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all r is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to insure contact with all internal surfaces. emove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains is than 50 ppm available chlorine.

ACCEPTED with COMMENTS in EPA Letter Dated: DEC 30 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, under EPA Reg. No. 9616-7

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES (cont'd)

LEAN-IN-PLACE METHOD: Thoroughly clean equipment after use. See table of proportions to prepare a volume of a 200 ppm available norine sanitizing solution equal to 110% of volume capacity of the equipment. Pump solution through the system until full flow is obtained at all ktremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure r at least 10 minutes to insure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test t. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

PRAY/FOG METHOD: Preclean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 pm solution to control bacteriophage. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse pray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area in at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution with a 200 ppm solution. (See table of roportions.)

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 30 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9616-7

SANITIZATION OF POROUS FOOD CONTACT SURFACES

INSE METHOD: See table of proportions and prepare a 600 ppm solution. Clean surfaces in the normal manner. Rinse all surfaces thoroughly ith the 600 ppm solution, maintaining contact for at least 2 minutes. Prepare a 200 ppm sanitizing solution. (See table of proportions.) Prior to sing equipment, rinse all surfaces with a 200 ppm available chlorine solution. Do not rinse and do not soak equipment overnight.

IMERSION METHOD: See table of proportions and prepare a 600 ppm solution. Clean equipment in the normal manner. Immerse equipment the 600 ppm solution for at least 2 minutes. Prepare a 200 ppm sanitizing solution (see table of proportions) of this product with 10 gallons of ater. Prior to using equipment, immerse all surfaces in a 200 ppm available chlorine solution. Do not rinse and do not soak overnight.

PRAY/FOG METHOD: Preclean all surfaces after use. See table of proportions and prepare a 600 ppm available chlorine sanitizing solution of ifficient size. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable ater after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to us quipment, see table of proportions and rinse all surfaces with a 200 ppm available chlorine solution.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 30 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 19616-7

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

INSE METHOD: See table of proportions and prepare a sanitizing solution to provide approximately 200 ppm available chlorine by weight. lean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with le sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

*I*MERSION METHOD: See table of proportions and prepare a sanitizing solution to provide approximately 200 ppm available chlorine by eight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the anitizer to drain. Do not rinse equipment with water after treatment.

PRAY/FOG METHOD: Preclean all surfaces after use. See table of proportions and prepare a 200 ppm available chlorine sanitizing solution of ufficient size. Use spray or fogging equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray or fog all urfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

ACCEPTED with COMMENTS in EPA Letter Dated:

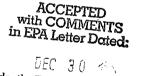
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9616-7

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DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES

INSE METHOD: See table of proportions and prepare a disinfecting solution to provide approximately 600 ppm available chlorine by weight. lean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with le solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMERSION METHOD: See table of proportions and prepare a disinfecting solution in an immersion tank to provide approximately 600 ppm vailable chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 inutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.



Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9616-7

ERTEX CSS-12 Rev. 0909

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SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

INSE METHOD: See table of proportions and prepare a sanitizing solution to provide approximately 600 ppm available chlorine by weight. lean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer r at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMERSION METHOD: See table of proportions and prepare a sanitizing solution to provide approximately 600 ppm available chlorine by eight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the anitizer to drain. Do not rinse equipment with water after treatment.

PRAY/FOG METHOD: After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine, see table of proportions. Use spray fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Prior to sing equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

ACCEPTED with COMMENTS in EPA Letter Dated:

Under the Federal Insecticide,

Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 7616-7

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SEWAGE & WASTEWATER EFFLUENT TREATMENT

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

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

he following are critical factors affecting wastewater disinfection:

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

SEWAGE AND WASTEWATER TREATMENT

FFLUENT SLIME CONTROL: Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare *property* plution 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. repare this solution by mixing 3 oz. of this product with 100 gallons of water.

ILTER BEDS SLIME CONTROL: Remove filter from service. Drain to a depth of 1 ft. above filter sand, and add product to obtain 500 ppm venly over the surface. (See table of proportions.) Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for to 6 hours before completely draining and backwashing filter.

ACCEPTED with COMMENTS in EPA Letter Dated: DEC 30 pone.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9616-7

DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS)

UBLIC SYSTEMS: See table of proportions. Prepare a 10 ppm solution. Begin feeding this solution with a hypochlorinator until a free available nlorine 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 nlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water egulations. Contact your local Health Department for further details.

IDIVIDUAL SYSTEMS DUG WELLS: Upon completion of the casing (lining) wash the interior of the casing (lining) with a 100 ppm available nlorine solution (see table of proportions) using a stiff brush. After covering the well, pour the sanitizing solution into the well through both the ipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until rong 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 moved from the water. Consult your local Health Department for further details.

IDIVIDUAL WATER SYSTEMS DRILLED, DRIVEN & BORED WELLS: Run pump until water is as free from turbidity as possible. Pour a 100 pm available chlorine sanitizing solution into the well. (See table of proportions.) Add 5 to 10 gallons of clean, chlorinated water to the well in rder to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and ump 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 nlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the anitizer into the well. Consult your local Health Department for further details.

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

MERGENCY DISINFECTION: When boiling water for 1 minute is not practical, water can be made potable by using this product. <u>Prior</u> to ddition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the <u>clarified</u>, contaminated ater to a clean container. Then add this product to make a 0.6 ppm solution (see table of proportions). Allow the treated water to stand for 30 inutes. Properly treated water <u>should</u> have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 minute. The treated water can then be made palatable by pouring it between clean containers for several times.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 30 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 19616-7

PUBLIC WATER SYSTEMS

RESERVOIRS - ALGAE CONTROL: Hypochlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at east 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, ETC.: Remove all physical soil from surfaces. Use a 500 ppm available chlorine solution (see table of proportions). Fill to vorking capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to service.

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 was r basses through the bed will aid in sanitizing the new sand.

NEW WELLS: Flush the casing with a 50 ppm available chlorine solution of water (see table of proportions). The solution should be pumped or ied by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

EXISTING EQUIPMENT: Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by using a solution of approximately 500 ppm available chlorine. (See table of proportions.) 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 approximately 1000 ppm available chlorine. After drying, flush with water and return to service.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 0 2009 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. / 96/6-7

EMERGENCY DISINFECTION AFTER FLOODS

/ELLS: See table of proportions and thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Backwash the well to crease yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual as etermined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to roduce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Retreat well if ater samples are biologically unacceptable.

ESERVOIRS: In case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the let water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of ontamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of ite reservoir.

ASINS, TANKS, FLUMES, ETC.: Thoroughly clean all equipment, then apply 20 oz. of product per 5 cu. Ft. of water to obtain 500 ppm vailable chlorine, as determined by a suitable test kit. After 24 hours drain, flush, and return to services. If the previous method is not suitable, pray 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 and for 2 to 4 hours, flush and return to services.

ILTERS: When the sand filter needs replacement, apply 80 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely ontaminated, 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 foot pove the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 80 oz. of this product per each 0 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 purs, drain and proceed with normal backwashing.

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

ACCEPTED with COMMENTS in EPA Letter Dated: DEC 30 2009

Under the Foderal Insecticide, ^{Mugleide}, and Rodenticide Act as ^{Mugleide}, for the pesticide, ^{Mugleide} ander EPA Reg. No. 9616-7

EMERGENCY DISINFECTION AFTER FIRES

ROSS CONNECTIONS OR EMERGENCY CONNECTIONS: Hypochlorination or gravity feed equipment should be set up near the intake of ie 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 inters the regular distribution system. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER DROUGHTS

UPPLEMENTARY WATER SUPPLIES: Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water a minimum chlorine residual of 0.2 ppm after a 20 minute contact time. Use a chlorine test kit.

IATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC. - Thoroughly clean all containers and equipment. Spray a 500 ppm availa normalize solution (see table of proportions) and rinse with potable water after 5 minutes. During the filling of the containers, dose with sufficient mounts of this product to provide at least 0.2 ppm chlorine residual. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER MAIN BREAKS

IAINS: 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 ressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the w 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 savily chlorinated water.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 n moc

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 96.16-7

COOLING TOWER FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS

LUG FEED METHOD: Initial dose: When system is noticeably fouled, see table of proportions and apply this product to obtain from 5 to 10 pm available chlorine. Repeat until control is achieved.

ubsequent Dose: When microbial control is evident, add this product as needed to maintain control and keep the chlorine residual at 1 ppm. adly fouled systems must be cleaned before treatment is begun.

NTERMITTENT FEED METHOD: Initial dose: When system is noticeably fouled, see table of proportions and apply this product to obtain 5 to 0 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 y blowdown.

Subsequent Dose: When microbial control is evident, add this product as needed to to 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 nust be cleaned before treatment is begun.

ONTINUOUS FEED METHOD: Initial Dose: When system is noticeably fouled, see table of proportions and apply this product to obtain 5 to 10 pm available chlorine in system water.

ubsequent Dose: See table of proportions and maintain this treatment level by starting a continuous feed of water lost by blowdown to maintain 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun. with COMMENTS in EPA Letter Doted:

EVAPORATIVE CONDENSER WATER FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS

DEC 30 2009

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

LUG FEED METHOD: Initial dose: When system is noticeably fouled, see table of proportions and apply this producting obtain from 5 to 10 pm available chlorine. Repeat until control is achieved.

ubsequent Dose: When microbial control is evident, add this product as needed to maintain control and keep the chlorine residual at 1 ppm. adly fouled systems must be cleaned before treatment is begun.

VTERMITTENT FEED METHOD: Initial dose: When system is noticeably fouled, see table of proportions and apply this product to obtain 5 to 0 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 y blowdown.

ubsequent Dose: When microbial control is evident, add this product as needed to to 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 nust be cleaned before treatment is begun.

ONTINUOUS FEED METHOD: Initial Dose: When system is noticeably fouled, see table of proportions and apply this product to obtain 5 to 10 pm available chlorine in system water.

ubsequent Dose: See table of proportions and maintain this treatment level by starting a continuous feed of water lost by blowdown to maintain 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

LAUNDRY SANITIZERS

Household Laundry Sanitizers

I SOAKING SUDS - See table of proportions and provide 200 ppm available chlorine solution. Wait 5 minutes, then add soap or detergent. Imerse laundry for at least 11 minutes prior starting the wash/rinse cycle.

I WASHING SUDS - See table of proportions and add sufficient product to wash water containing clothes to provide 200 ppm available solution. Wait 5 minutes, then add soap or detergent and start the wash/rinse cycle.

Commercial Laundry Sanitizers

/et fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix sufficient proportion of this product with 10 gallons of water to eld 200 ppm available chlorine (see table of proportions). Promptly after mixing the sanitizer, add the solution into the prewash prior to washing brics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add ore of this product if the available chlorine level has dropped below 200 ppm.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 G Mono

Under the Federal Insecticide. jungicide, and Rodenticide Actas

FARM PREMISES

emove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of arns, pens, stalls, chutes and other facilities occupied or transverse by animals or poultry. Empty all troughs, racks and other feeding and atering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution at least 1000 ppm available chlorine for a period of 10 minutes (see table of proportions). Immerse all halters, ropes and other types of automet used in handling and restraining animals or poultry, as well as the cleaned forks, shovels and scrapers used for removing litter and anure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been ssipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 () 71()9

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. / 96/6-7

PULP AND PAPER MILL PROCESS WATER SYSTEMS

_UG FEED METHOD - Initial Dose: When system is noticeably fouled, see table of proportions and apply adequate proportions of this product r 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

ubsequent Dose: When microbial control is evident, see table of proportions and add adequate proportion of this product per 10,000 gallons of ater in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned fore treatment is begun.

TERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, see table of proportions and apply adequate proportion of this oduct 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 where the system has been lost by blowdown.

Ibsequent Dose: When microbial control is evident, see table of proportions and add adequate proportion of this product per 10,000 gallons of ater 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.

ONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, see table of proportions and apply adequate proportion of this oduct per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

ubsequent Dose: Maintain this treatment level by starting a continuous feed of this product (see table of proportions) per 1,000 gallons of water st by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

> ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 30 5mm mder the Federal Insecticide, 🛼

AGRICULTURAL USES

OST-HARVEST PROTECTION - Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of gallon of sanitizing solution per ton of potatoes. See table of proportions and thoroughly mix an adequate proportion of this product to 2 gallons water to obtain 500 ppm available chlorine.

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

RUIT & VEGETABLE WASHING: Thoroughly clean all fruits and vegetables in a wash tank. See table of proportions and prepare a solution th 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for two minutes in a second wash tank containing the circulating sanitizing solution with 25 ppm sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit th potable water only prior to packaging.

ACCEPTED with COMMENTS in EPA Letter Dated: 12: 30 MM Under the Federal Insecticide,

Inder the Federal Insecticide, mide, and Rodenticide Actas rd for the posticide, mider EPA Reg. No. 19616-7

EGG SANITIZING

. INSTRUCTION FOR EGG SANITIZING WITH VERTEX CSS-12.

The sanitizing solution recommended for use for shell egg sanitizing is a 200 ppm solution of VERTEX CSS-12. (See Table of Proportions.)VERTEX CSS-12 is not deleterious to shell eggs or egg-products.

RECOMMENDED PROCEDURES FOR WASHING & SANITIZING FOOD EGGS.

- 1. Wash eggs promptly after gathering.
- 2. Water with an iron content in excess of 2 parts per million shall not be used unless equipment capable of removing the excess iron is installed on the water system.
- 3. Wash water temperature should be 90°F or higher.
- 4. Maintain the wash water at a temperature which is at least 20°F warmer than the temperature of the eggs to be washed.
- 5. Spray rinse washed eggs with warm sanitizer so that the eggs are thoroughly wetted. The sanitizer temperature should not exceed 130° F.
- 6. Do not apply a potable water rinse.
- 7. Allow the eggs to thoroughly dry before casing or breaking.
- 8. Never reuse sanitizing/washing solution

ACCEPTED with COMMENTS in EPA Letter Dated: JEC 30 1000

Under the Federal Insecticide, hungicide, and Rodenticide Act as mnended, for the pesticide, registered under EPA Reg. No. 9616-7

EGG DESTAINING

. INSTRUCTIONS FOR EGG DESTAINING WITH VERTEX CSS-12.

The destaining solution recommended for use for shell egg destaining is a 250 ppm solution of VERTEX CSS-12. (See Table of Proportions.) VERTEX CSS-12 is not deleterious to shell eggs or egg-products.

RECOMMENDED PROCEDURES FOR DESTAINING SHELL EGGS.

- 1. The destainer solution must be at least 20°F warmer than the shell eggs with a minimum solution temperature of 90°F.
- 2. Total elapsed time in the destainer solution may not exceed 5 minutes.
- 3. Eggs are to be rewashed and spray rinsed after destaining.
- 4. Destainer solution should be replaced daily or whenever it becomes dirty.
- 5. Destaining is to be done after the initial washing has been completed.
- 6. It is recommended that all eggs be shell protected after they have been destained.
- 7. Never reuse sanitizing/washing solution.

ACCEPTED with COMMENTS in EPA Lotter Dated:

DEC 30 2009

Under the Federal Insecticide, ^{Augucide}, and Rodenticide Act as ^{Augucide}, for the pesticide, stored under EPA Reg. No. 9616-7

AQUACULTURAL USES

SH PONDS - Remove fish from ponds prior to treatment. See table of proportions and thoroughly mix adequate proportion of this product to),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 inutes. Return fish to pond <u>after</u> the available chlorine level reaches zero.

SH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. See table of proportions and thoroughly mix an adequate oportion of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

AINE LOBSTER PONDS - Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. See table of proportions and apply adequate proportion of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, ck 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 vailable chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.

ONDITIONING LIVE OYSTERS - See table of proportions and thoroughly mix an adequate proportion of this product to 10,000 gallons of ater 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 vel 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 slow 50°F.

ONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing 200 ppm of available chlorine by mixing an lequate proportion of this product (see table of proportions) with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do t put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

ACCEPTED with COMMENTS in EPA Letter Dated: DEC 30 Ming

Under the Fedoral Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 96/6-7

SANITIZATION OF DIALYSIS MACHINES

ush equipment thoroughly with water prior to using this product. Thoroughly mix an adequate proportion of this product (see table of oportions) to 10 gallons of water to obtain at least 600 ppm available chlorine. Immediately use this product in the hemodialysate system lowing for a minimum contact time of 15 minutes at 20°C. Drain system of the sanitizing solution and thoroughly rinse with water. Discard and O NOT reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to insure that no available chlorine remains in the system.

his product is recommended for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an fective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not tally eliminate all vegatative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied on to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant ogram which includes bacteriological monitoring of the hemodialysate delivery system. This product is NOT recommended for use in smodialysate or reverse osmosis (RO) membranes.

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

his product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the uman body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but hich does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

ACCEPTED with COMMENTS in EPA Letter Dated: MEC 36 July under the Federal Insecticide. - giciele, and Rodenticide Act as used under EPA Reg. No. 996/6-7

ASPHALT OR WOOD ROOFS AND SIDINGS

control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine plution. Brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.

BOAT BOTTOMS

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

ARTIFICIAL SAND BEACHES

> sanitize the sand, spray a 500 ppm available chlorine solution containing and adequate proportion of this product (see table of proportions) r 10 gal. of water at frequent intervals. Small areas can be sprinkled with a watering can.

> ACCEPTED with COMMENTS in EPA Letter Dated:

TEC 30 400 Under the Federal Insecticide, Fungicide, and Rodenticide Actas amended, for the pesticide, registered under EPA Reg. No. 9/6/16-7

WATER TREATMENT COMPOUNDS

FOOD PROCESSING PLANTS - PROCESS WATER

ROCESS WATER: Systems in establishments operating under the Federal Meat, Poultry, Shell Egg Grading and Egg Product Inspections ogram. See table of proportions and treat poultry process water to a dosage of 5 ppm calculated as available chlorine. Chlorine may be used poultry chiller intake water and in carcass wash water in poultry plants at levels up to 50 ppm calculated as available chlorine. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained. Chlorine may be esent in process water of meat plants at concentrations up to 5 parts per million calculated as available chlorine. Under reliable controls, the ilorine level may be increased in water used on meat carcasses up to 50 ppm.

> ACCEPTED with COMMENTS in EPA Letter Dated:

DEC 3 6 9600 , Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the posticide, registered under EPA Reg. No. 9616-7