

PM 32 REG# 9768-7
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 1 1990

Thatcher Company
 P.O. Box 27407
 Salt Lake City, Utah 84127

Attn: Don Montierth

Subject: Product Name: T-Chlor
 EPA Reg. No.: 9768-7
 Amendment of: February 14, 1990

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments below. Five copies of the finished labeling must be submitted.

In the section of your label titled "FIRST AID":

- Change the title of this section to "STATEMENT OF PRACTICAL TREATMENT".
- Revise the "IF SWALLOWED" statement to read: "IF SWALLOWED, drink large quantities of water. DO NOT induce vomiting. DO NOT give vinegar or other acids. Get prompt medical attention."

If you should have any questions concerning this letter, you may call Robert Travaglini on (703) 557-6909

Sincerely,



Walter C. Francis
 Acting Product Manager (32)
 Antimicrobial Program Branch
 Registration Division (H7504C)

CONCURRENCES							
SYMBOL	H7504C						
SURNAME	W.C. Francis						
DATE	5-1-90						

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

MAR 1 1990

T-CHLOR

High Test Sodium Hypochlorite Solution
Disinfectant - Bleach - Deodorant

BEST AVAILABLE COPY

Under the Federal Insecticide, Fungicide, and Rodenticide Act amended, for the pesticide registered under EPA Reg. No. 9768-1

ACTIVE INGREDIENT Sodium Hypochlorite 10.3%
INERT INGREDIENTS 89.7%

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CORROSIVE. May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and 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 strong odors have dissipated.

DIRECTIONS FOR USING T-CHLOR

STORAGE AND DISPOSAL

Keep this product in its original container away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Products or residues that cannot be used should not be used as water because it could pollute a spring, well, or sewer. Do not reuse container but place in trash collection. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

INSTRUCTIONS FOR USE

To use in 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 available chlorine.

SWIMMING POOL WATER DISINFECTATION

For a new pool or spring start up, superchlorinate with 54 to 100 oz. of product for each 10,000 gallons 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 the pool water pH to between 7.2 and 7.8. Adjust and maintain the alkalinity of the pool to between 80 and 100 ppm.

To maintain the pool, add manually or by a feeder device 12 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.8 and 1.0 ppm by weight. Cost lined pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual, and alkalinity of the water frequently, with appropriate test kits. Frequency of water treatment will depend on temperature and number of swimmers.

Every 7 days, or as necessary, superchlorinate the pool with 54 to 100 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter the pool until the chlorine residual is between 1.0 and 3.0 ppm. At the end of the swimming pool season, or when water is drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

WINTERIZATION: While water is still clear and clean, apply 4 oz. of product per 1,000 gallons of water, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, pressure heater, filter, and heater components for winter by following manufacturers' instructions.

SPAS, HOT TUBS

SPAS/HOT TUBS: Apply 5 oz. of product per 1,000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Soaps, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of this product.

DISINFECTATION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD: Prepare a disinfecting solution by thoroughly mixing 5 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

IMMERSION METHOD: A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1.6 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 3 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse the equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. If the solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

RINSE METHOD: A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not fall below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1.6 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 3 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after use, and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

FLOW THROUGH METHOD: Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a solution of 200 ppm available chlorine sanitizing solution equal to 1/4 of volume capacity of the equipment by mixing the product in a ratio of 3 oz. of product with 10 gallons of water. Pump solution through the equipment until full flow is obtained at all extremities, the equipment is completely filled with the sanitizer, and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to insure contact with all internal surfaces. Remove hose to drain. Remove cap to drain. Remove cap to drain. Remove cap to drain. Repeat entire clean/sanitizing process if effluent contains less than 50 ppm available chlorine. Drain solution from equipment. Do not rinse with water after treatment.

SPRAY/FOG METHOD: Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacterial, mold, or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 3 oz. of product with 10 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 9 oz. of product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment treated with 600 ppm solution, rinse all surfaces with a 200 ppm solution. Do not rinse with water. Empty and rinse spray/fog equipment with potable water after use.

AGRICULTURAL USES

POST-HARVEST PROTECTION: Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per ton of potatoes. Thoroughly mix 1.6 oz. of this product to 2 gallons of water to obtain 500 ppm available chlorine.

DISINFECTATION OF DRINKING WATER

PUBLIC SYSTEMS: Mix a ratio of 1 oz. of this product to 1000 gallons of water. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.5 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Sanitation Drinking Water Regulations. Contact your local health department for further details.

FIRST AID

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

Hypochlorite Solution
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