

65560-20001

11-20-1997

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US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

65560-20001

NOV 20 1997

TERM OF ISSUANCE

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

NAME OF PESTICIDE PRODUCT

Sodium Hypochlorite 12.5%

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Worth Chemical Corporation
P. O. Box 20725
Greensboro NC 27420

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

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

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similiar products to submit such data.
2. Add the phrase, "EPA Registration No. 65560-20001" to your label before you release the product for shipment.
3. Submit one copy 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.

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

Please note that on the proposed label the declared percentages for the active and inert ingredients in the ingredient statement should be aligned to the same margin.

Active Ingredient:
Sodium Hypochlorite 12.5%
Inert Ingredients 87.5%
Total 100.0%

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

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The labels and labeling of all products must comply with EPA's current regulations and requirements according to 1986 Registration Standard.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Robert S. Brennis
Acting Product Manager (32)
Regulatory Management Branch II
Antimicrobial Division (7504C)

SODIUM HYPOCHLORITE 12.5%

ACTIVE INGREDIENT: SODIUM HYPOCHLORITE.....12.5%
INERT INGREDIENTS:87.5%
TOTAL:100.0%

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER! CAUSES SEVERE BURNS TO SKIN, EYES AND MUCOUS MEMBRANES.
STRONG OXIDIZING AGENT. MIX ONLY WITH WATER.
MIXING WITH AMMONIA, ACIDS AND OTHER CHEMICALS MAY
RELEASE HAZARDOUS, IRRITATING GASES.

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. AVOID BREATHING VAPORS.
KEEP CONTAINERS CLOSED. USE GOGGLES, FACE SHIELD, RUBBER GLOVES AND
SHOES. VACATE POORLY VENTILATED AREAS IMMEDIATELY AND DO NOT RETURN
UNTIL ODORS HAVE DISSIPATED. WASH THOROUGHLY AFTER HANDLING.

ENVIRONMENTAL HAZARD:

THIS PESTICIDE IS TOXIC TO FISH AND AQUATIC ORGANISMS. DO NOT DISCHARGE
EFFLUENT CONTAINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES,
OCEANS OR PUBLIC WATERS UNLESS IN ACCORDANCE WITH AN NPDES PERMIT OR INTO A
SEWER SYSTEM WITHOUT PROPER NOTIFICATION. FOR GUIDANCE CONTACT YOUR STATE
WATER BOARD OR EPA REGIONAL OFFICE.

FIRST AID:

IN CASE OF CONTACT WITH EYES OR SKIN, FLUSH WITH LARGE AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. IF INHALED, REMOVE TO
FRESH AIR. IF SWALLOWED, DO NOT INDUCE VOMITING. DILUTE BY DRINKING
LARGE AMOUNTS OF WATER. CALL A PHYSICIAN.

FOR FIRE:

USE FULL PROTECTIVE EQUIPMENT. FLOOD WITH WATER OR CO2. MATERIAL
IS A STRONG OXIDIZER. DECOMPOSITION PRODUCTS MAY INCLUDE CHLORINE.

FOR SPILL:

CONTAIN AND COLLECT OR NEUTRALIZE WITH SODIUM BISULFITE OR FERROUS
SALT SOLUTIONS AND FLUSH WITH WATER. REPORTABLE SPILL QUANTITY IS
100 LBS. OBSERVE GOVERNMENTAL REGULATIONS FOR DISPOSAL.

EMERGENCY TELEPHONE NO:

CHEMTREC 1-800-434-9300
24-HOURS

HAZARD RATINGS:

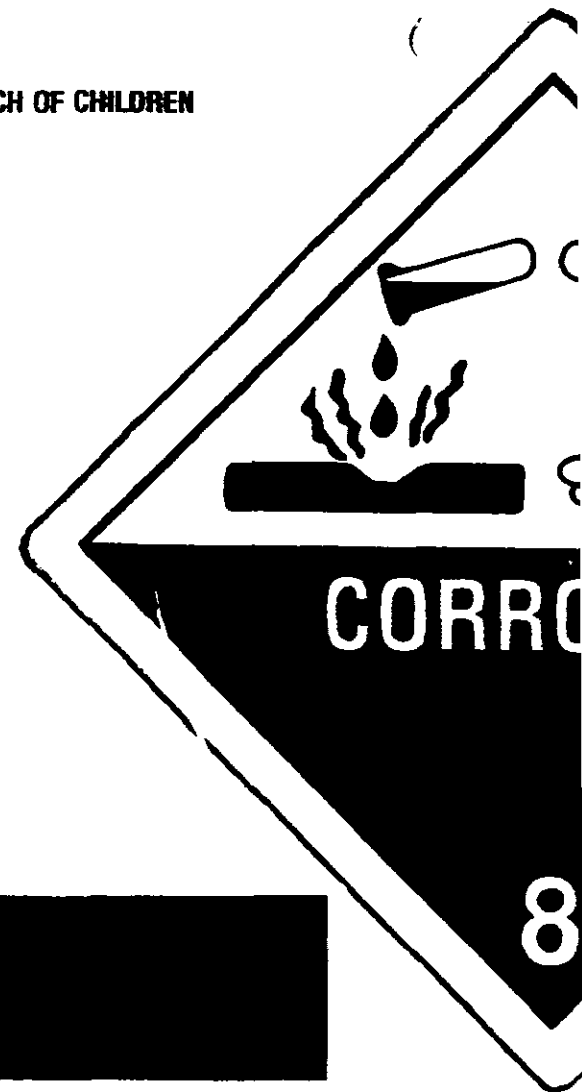
HEALTH 3
FLAMMABILITY 0
REACTIVITY 1

DISCLAIMER OF WARRANTIES

WORTH CHEMICAL CORPORATION DISCLAIMS
ALL IMPLIED WARRANTIES OF
MERCHANTABILITY OR OF FITNESS FOR A
PARTICULAR PURPOSE. THE CORPORATION
SHALL NOT BE LIABLE FOR ANY
COMMERCIAL, CONSEQUENTIAL OR
INCIDENTAL DAMAGES INCURRED BY THE
PURCHASER THROUGH THE USE OF THIS
PRODUCT.

LABEL #: BL-3

REVISED: 8/25/97



DOT SHIPPING NAME: RO. HYPOCHLORITE SOLUTION

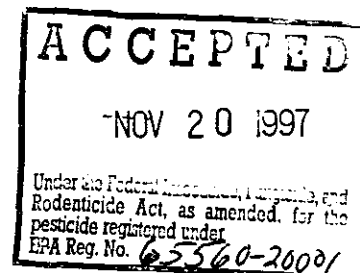
DOT ID NUMBER: UN1791

EPA REG. #: 65560-

EPA EST. #: 65560-NC-1

PACKAGED

BY:



SODIUM HYPOCHLORITE 12.5%

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.
FOR END USE. NOTE: This product degrades with age. Use a chlorine test kit and measure dosage as necessary to obtain the required level of available chlorine.

COMMERCIAL LAUNDRY SANITIZERS

Wet fabrics or clothes should be spun dry prior to sanitization. Add this product until 200 ppm available chlorine solution is obtained. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

RINSE METHOD - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. If no test kit is available, prepare a sanitizing solution 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, making contact with the sanitizer for at least 2 minutes. 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 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight.

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

IMMERSION METHOD - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. If no test kit is available, prepare a sanitizing solution to provide approximately 200 ppm available chlorine by weight.

Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 min. and allow the sanitizer to drain. If solution contains less than 50 ppm available chlorine, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

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

FLOW/PRESSURE METHOD - Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 min. to insure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. Rinse system with potable water prior to use.

CLEAN-IN-PLACE METHOD - Thoroughly clean equipment after use. Follow flow/pressure method except hold equipment under pressure for at least 10 min. to insure contact with all internal surfaces. Drain surfaces.

SPRAY/FOG METHOD - Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hrs. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution with a 200 ppm solution.

DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC SYSTEMS)

PUBLIC SYSTEMS - Prepare a 10 ppm solution. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

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

AGRICULTURAL USES

FOOD EGG SANITIZATION - Thoroughly clean all of eggs. Add this product until 200 ppm available chlorine solution is obtained. The sanitizer temperature should not exceed 120°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or treating. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

FRUIT & VEGETABLE WASHING - Thoroughly clean all fruits and vegetables in a wash tank. Add this product until solution of 25 ppm available chlorine is obtained. After draining the tank, submerge fruit or vegetables for 2 min. in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

COOLING TOWER/EVAPORATIVE CONDENSER WATER

SLUG FEED METHOD - Initial dose: When system is noticeably fouled, add this product in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. Subsequent dose: When microbial control is evident, add this product in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Slightly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial dose: Obtain 5 to 10 ppm available chlorine as in slug feed method procedure. Apply half (or 1/3 or 1/4 or 1/5) of this initial dose when half (or 1/3 or 1/4 or 1/5) of the water in the system has been lost by blowdown. Subsequent dose: Maintain a 1 ppm residual in system. Apply as in initial dose. Clean badly fouled systems before treatment.

CONTINUOUS FEED METHOD - Initial dose: Obtain 5 to 10 ppm available chlorine as in slug feed method procedure. Subsequent dose: Maintain this treatment level by starting a continuous feed of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Clean badly fouled systems before treatment.

SWIMMING POOL WATER DISINFECTION

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 pool 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 normally or by feeder device 12 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.5 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers. Every 7 days, or as necessary, superchlorinate the pool again to yield 5 to 10 ppm available chlorine. Check level with a test kit. Do not re-enter pool until the chlorine residual is between 1.0 and 3.0 ppm. At the end of pool season or when water is drained from pool, allow the chlorine to dissipate from pool before discharge and do not chlorinate within 24 hrs. prior to discharge.

WINTERIZE POOLS - While water is still clear and clean, apply 4 oz. of product per 1000 gallons, while filter is running, to obtain 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 manufacturers' instructions.

LABEL #: BL-4
REVISED: 8/28/97

PACKAGED
BY:

ACCEPTED

NOV 20 1997

Under the Federal Insecticide, Fungicide, and
Rodenticide Act, as amended, for the
pesticide registered under
EPA Reg. No. 65560-20001

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