

PM 32 65560-4 U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 65560-4	DATE OF ISSUANCE NOV 24 1997
	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		NAME OF PESTICIDE PRODUCT Sodium Hypochlorite 5.25%

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/re-registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 65560-4"
  - b. Revise the "Environmental Hazards" statement to read: "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 the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA."

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL  DATE

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- 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.

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.

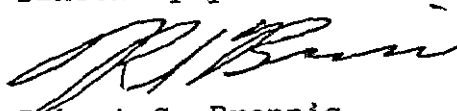
Active Ingredients:  
 Sodium Hypochlorite ..... 5.25%  
 Inert Ingredients ..... 94.75%  
 Total ..... 100.00%

Also, 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.

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

Sincerely yours,



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

Enclosure

# SODIUM HYPOCHLORITE 5.25%

INGREDIENT: SODIUM HYPOCHLORITE 5.25%  
OTHER INGREDIENTS: 94.75%  
TOTAL: 100.0%

## 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 NOTICE. 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.

DOT SHIPPING NAME: RO, HYPOCHLORITE SOLUTION

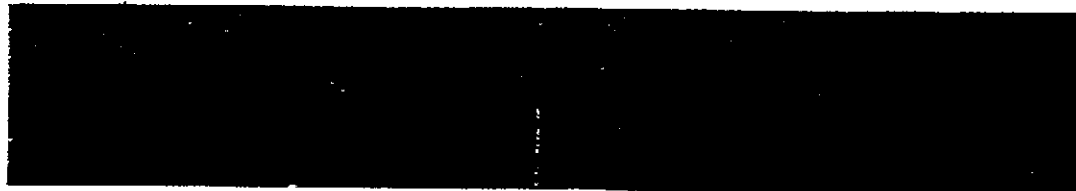
DOT ID NUMBER: UN1791

EPA REG. #: 65560-

EPA EST. #: 65560-NC-1

PACKAGED

BY:



KEEP OUT OF REACH OF CHILDREN

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-7

REVISED: 9/2/97



ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 24 1997  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No. 65560-4

65560-4

# SODIUM HYPOCHLORITE 5.25%

## DIRECTIONS FOR USE

If a violation of Federal law to use this product in a manner inconsistent with its labeling.  
FOR AND USE. NOTE: This product degrades with age. Use a chlorine test kit and measure dosage  
if necessary to obtain the required level of available chlorine.

### COMMERCIAL LAUNDRY SANITIZERS

Wet fabrics or clothes should be open 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 fabric/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. Vacuum 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 0.5 ppm is obtained  
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  
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

**EGG SANITIZATION** - Thoroughly clean all egg. 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 breaking. Do not  
apply a potable water rinse. The solution should not be re-used to sanitize eggs.

**FRUIT & VEGETABLE WASHING** - Thoroughly clean all fruits and vegetables in a wash tank. 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 remineralizing 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. Badly 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.

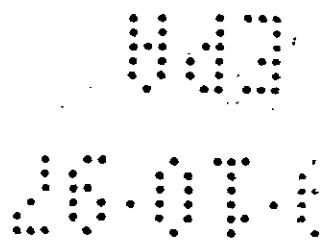
### SWIMMING POOL WATER DISINFECTION

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 manually or by feeder device 12 oz. of this product  
for each 10,000 gallons of water to yield an available chlorine residual between 0.6 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-6  
REVISED: 9/2/97

PACKAGE  
BY:



ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 24 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide  
registered under EPA Reg. No. 65560-4

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