

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

EPA REGISTRATION NO.
148-1288

DATE OF ISSUANCE
June 30, 1993

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

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

Sodium Hypochlorite 12.5%

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Harcros Chemicals, Inc.
5200 Speaker Rd.
Kansas City, KS 66106-1095

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.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the above named product subject to the comments recorded in the succeeding paragraph. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

1. Make the following labeling changes before you release the product for shipment:
 - A. Remove the exclamation point after "Danger" in the Precautionary Statements section.
2. Submit a revised Confidential Statement of Formula (a blank form is enclosed for your convenience) with the following changes:
 - A. Enter the upper and lower limits for water in column 14. Enter the upper limit for Sodium chloride (not to exceed 12.5%) in column 14(a).
 - B. The upper limit for Sodium hydroxide in column 14(a) must not exceed 2.0%.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

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

Submit one copy of the final printed label before releasing the product in channels of trade with the revised labeling.

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

Sincerely,



Ruth G. Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7504C)

Enclosure

ACCEPTED
with COMMENTS
in EPA Letter Data

BEST AVAILABLE COPY

JUN 30 1993

NET CONTENTS: 5 GALLONS
Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is classified as a pesticide.
EPA Reg. No. 148-1288
SODIUM HYPOCHLORITE 12.5%
(12.5% Available Chlorine)

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Degrades with age. Use a test kit and increase dosage as necessary to obtain required level of available chlorine.

ACTIVE INGREDIENTS:
SODIUM HYPOCHLORITE 12.5%
INERT INGREDIENTS 87.5%
100.0%

DIRECTIONS FOR

SWIMMING POOLS
This product should be used in conjunction with a chlorine test kit and added to the pool in sufficient quantity to insure that the residual chlorine in the pool water is maintained at a minimum concentration of 0.6 ppm at all times and the pool pH maintained at 7.2 to 7.6.

KEEP OUT OF REACH OF CHILDREN
DANGER: CONSULT MSDS FOR FURTHER INFORMATION
STATEMENT OF PRACTICAL TREATMENT - FIRST AID
FOR EYE CONTACT, flush eyes with water for at least 15 minutes. Get prompt medical attention. **FOR SKIN CONTACT**, wash with plenty of soap and water. **IF INHALED**, go to fresh air. If breathing is difficult, use oxygen. If breathing has stopped give artificial respiration, preferably mouth to mouth. Get prompt medical attention. **IF SWALLOWED**, drink large amounts of water. **DO NOT** induce vomiting. Call a physician or poison control center immediately.

Meat and Poultry Processing Plants - Clean walls, floors, ceilings and similar areas. For at least 2 minutes. Do not rinse after 200 ppm available chlorine (2 oz. (1/2 cup) per 10 gallons water) may be used on edible contact time with sanitizer for at least 2 minutes. Do not allow the solution to come directly

To maintain the pool, add manually or by a feeder device 11 oz (1 1/2 cups) of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.8 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 residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

Use the table below for addition of this product to maintain an available chlorine residual between 0.6 to 1.0 ppm by weight:

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER! CORROSIVE
EYE CONTACT can cause severe irritation, burns, eye damage, even blindness. **SKIN CONTACT** can cause severe irritation, burns. **INHALATION** can cause severe irritation, pneumonia, lung damage, even death. **INGESTION** can cause severe irritation, ulceration, coma, even death.
PRECAUTIONS
Wear safety glasses or goggles or face shield and rubber gloves. Do not get in eyes, on skin, or clothing. Do not breathe vapor, mist, or gas. Use only with adequate ventilation. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated. Wash thoroughly after handling.
ENVIRONMENTAL HAZARDS
This product is toxic to fish. Keep out of lakes, streams, ponds, and public waterways unless in accordance with NPDES permit. For guidance, contact the regional office of the U.S. Environmental Protection Agency.
PHYSICAL 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. urine, feces, etc.) will result in the release of potentially poisonous vapor which may be harmful and may even cause death.

DRINKING WATER DISINFECTION

Sodium hypochlorite solution may be used at a ratio of 1.5 oz. of this product to 100 gallons of water with a hypochlorinator until a free residual of at least 0.2 ppm and no more than 0.6 ppm is achieved. Check water frequently. Bacteriological sampling must be conducted as prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further information.

FOOD EGG SANITIZATION

Thoroughly clean all eggs. Thoroughly mix with 10 gallons of warm water to produce a solution. The sanitizer temperature should be warm sanitizer so that the eggs are thoroughly dry before casing or brooding. Do not rinse. The solution should not be re-used.

RESTAURANTS AND FOOD SERVICE

After washing with dishwashing detergent immerse utensils in sanitizing solution prepared with 10 gallons of water to provide 200 ppm available chlorine. Maintain contact with sanitizer for at least 2 minutes. Do not rinse utensils with water.

MACHINE DISHWASHING TERMINAL RINSE

As a terminal sanitizing rinse for pre-cleaned dispensing equipment to provide a sanitizer solution with 200 ppm available chlorine by weight according to Health Authorities. Use solution should be tested with a chlorine test kit to ascertain that the residual is at least 50 ppm. In absence of a test kit a starting concentration of 200 ppm should be used. Do not rinse utensils with water.

DISINFECTION OF COOLING SYSTEMS

For the control of bacteria, algae and fungi, add solution to the lower basin, distribution box and fan coil. Provide uniform mixing.

INITIAL DOSE: When the system is not chlorinated, add 1 pint (8-16 oz.) of sodium hypochlorite solution to the system will achieve 7.5-15 ppm available chlorine. If necessary, repeat procedure until 7.5-15 ppm is achieved.

SUBSEQUENT DOSE: When microbial count is high, add 1/2 pint to 1/4 pint (4-8 oz.) of sodium hypochlorite solution to the system will achieve 3.75-7.5 ppm available chlorine. Apply treatment weekly or as needed. Closed systems must be cleaned before re-chlorination. Sodium hypochlorite solution weighs 10.3 lbs. per gallon.

Gallons of Water	Sodium Hypochlorite Solution Required
500	1/2 oz. (3 teaspoons)
1,000	1 oz. (6 teaspoons)
5,000	5 1/2 oz. (3/4 cup)
10,000	11 oz. (1 1/2 cups)
25,000	27 oz. (3 3/4 cups)

Every 7 days, or as necessary, to combat the growth of algae, superchlorinate the pool with 52 to 104 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 pool until the chlorine residual is between 1.0 to 3.0 ppm. Dilute the required amount of sodium hypochlorite solution with at least 10 additional volumes of water. This diluted solution can be spread over the surface of the pool from the edges with a plastic sprinkler can.

COMMERCIAL LAUNDRY BLEACH SANITIZER

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 2 oz. of the product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with good detergent. Test the level of available chlorine. If solution has been allowed to stand. Add more of the product if the available chlorine level has dropped below 200 ppm.

MILK PLANT AND DAIRY EQUIPMENT

Bottles, bottle filters, coolers, pasteurizers, churns, separators, utensils and other equipment may be sanitized by using sodium hypochlorite. Surfaces or articles to be sanitized must be thoroughly pre-cleaned. Rinse all surfaces with the sanitizing solution prepared by adding 2 oz. of the product with 10 gallons of water to provide 200 ppm available chlorine by weight. Maintain contact for at least 2 minutes after sanitizing, do not rinse equipment with water after treatment and do not soak equipment overnight.

MEAT AND POULTRY PROCESSING PLANTS

Surfaces or articles to be sanitized must be thoroughly pre-cleaned. Solutions containing 800 ppm available chlorine by weight (8 oz. (1 cup) sodium hypochlorite solution per 10 gallons water) may be used for sanitizing.

STORAGE AND DISPOSAL
Storage: Do not contaminate food or feed by storage, disposal or cleaning of equipment. Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. **Disposal:** Product or residues that cannot be used should be diluted with water before disposal in a sanitary sewer. **Container:** Do not reuse empty container but place in trash collection. (If containers are to be recycled for refilling with Sodium Hypochlorite Solution, return to distributor for refilling.)