

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

EPA REGISTRATION NO.

148-628

DATE OF ISSUANCE

June 30, 1993

TERM OF ISSUANCE

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

NAME OF PESTICIDE PRODUCT

Sodium Hypochlorite Solution

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Reg # 148-628 - PM-32 193
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

BEST AVAILABLE COPY

NET CONTENTS: 5 GAL

SODIUM HYPOCHLORITE SOLUTION

(10% 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.

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.

To maintain the pool, add manually or by a feeder device 12.5 oz (1 1/2 cup) 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 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:

Gallons of Water	Sodium Hypochlorite Solution Required
500	1/4 oz. (4 teaspoons)
1,000	1/2 oz. (8 teaspoons)
5,000	2.5 oz. (1/2 cup)
10,000	5.0 oz. (1 cup)
25,000	12.5 oz. (2 1/2 cups)

Every 7 days, or as necessary, to combat the growth of algae, superchlorinate the pool with 64 to 128 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 sprinker can.

COMMERCIAL LAUNDRY BLEACH SANITIZER

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 2.5 oz. of this 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 this product if the available chlorine level has dropped below 200 ppm.

MILK PLANT AND DAIRY EQUIPMENT

Bottles, bottlenecks, coolers, pasteurizers, churns, separators, utensils and other equipment may be sanitized by using sodium hypochlorite. Surfaces or articles to be sanitized must be thoroughly precleaned. Rinse all surfaces with the sanitizing solution prepared by adding 2.5 oz. of this 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 precleaned. Solutions containing 600 ppm available chlorine by weight (7 1/2 oz. (1 cup) sodium hypochlorite solution per 10 gallons water) may be used for sanitizing

ACTIVE INGREDIENTS:
SODIUM HYPOCHLORITE 10.5%
INERT INGREDIENTS 89.5%
100.0%

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.

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 fumes 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.

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).

Meat and Poultry Processing: Sanitize walls, floors, ceilings and sides for at least 2 minutes. Do not use less than 200 ppm available chlorine (2.5 oz. per 10 gallons water) may be used for contact time with sanitizer for sanitizing. Do not allow the solution to dry.

DRINKING WATER: Sodium hypochlorite solution may be used at a rate of 1.5 oz. of this product per 100 gallons of water to yield a residual of at least 0.2 ppm and no more than 1.0 ppm. Bacteriological sampling must be done as prescribed by the National Sanitation Foundation. Contact your local Health Department for more information.

FOODS: Thoroughly clean all eggs. Then immerse in 10 gallons of warm water solution. The sanitizer temperature should be warm so that the eggs thoroughly dry before casing. The solution should not be used on fresh produce.

RESTAURANTS: After washing with dishwashing detergent, immerse utensils in sanitizing solution with 10 gallons of water. Maintain contact with sanitizer to drain. Do not rinse.

MACHINE DISHWASHING: As a terminal sanitizing rinse for dishwashing equipment to provide 200 ppm available chlorine by weight. Use solution chlorine test kit to ascertain the level. 50 ppm. In absence of a test kit, do not use.

DISINFECTION OF SURFACES: For the control of bacteria, apply solution to the lower basin, drain, and uniform mixing.

INITIAL DOSE: When the system is first installed, add 1 1/2 pint (10-20 oz.) of Sodium Hypochlorite Solution to the system water. If necessary, repeat procedure. **SUBSEQUENT DOSE:** When the system is in operation, add 1/2 pint to 1 pint (5-10 oz.) of Sodium Hypochlorite Solution to the system water by weight. Apply treatment weekly. Contaminated systems must be cleaned with Sodium Hypochlorite Solution weekly.