

24 SEP 1987

Thompson-Hayward Chemical Company  
5200 Speaker Road  
P.O. Box 2383  
Kansas City, KS 66106

Attention: Edward E. Chapman

Gentlemen:

Subject: Sodium Hypochlorite Solution  
EPA Registration No. 148-628  
Your Amendment Dated July 30, 1987

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

- Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

If this condition is 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 this condition.

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

Sincerely yours,

Jeff Kempter  
Product Manager (32)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosure

91916:Pringle:K-1:KENCO:9/22/87:10/02/87:TG:dg:lf

CONCURRENCES

SYMBOL	TS-767C						
SURNAME	Pringle						
DATE	9/22						

# SODIUM HYPOCHLORITE SOLUTION

ACCEPTED  
with COMMENTS  
to EPA Letter Dated:

## (10% Available Chlorine)

SEP 24 1987

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

148628

<b>ACTIVE INGREDIENTS:</b>	
SODIUM HYPOCHLORITE .....	10.5%
<b>INERT INGREDIENTS .....</b>	<b>89.5%</b>
	100.0%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** If contact with skin occurs, wash with plenty of soap and water. If contact with eyes occurs, flush with water for at least 15 minutes. Get prompt medical attention. If swallowed, drink large quantities of milk or gelatin solution, or 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.

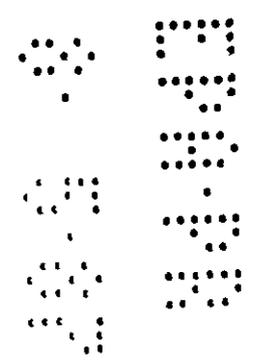
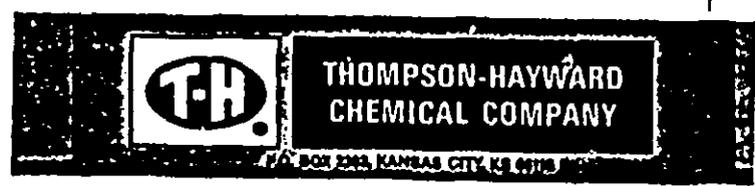
SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SIDE PANEL.

Degrades with age. Use a test kit and increase dosage as necessary to obtain required level of available chlorine.

Directions: 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 0.8 ppm at all times and the pool pH maintained at 7.2 to 7.6.

EPA Reg. No. 148-628

EPA Est. No. 148-KC-1



**NET CONTENTS**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**DANGER:** Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes, on skin or on clothing. Wear safety glasses or goggles or face shield 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.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, streams, ponds or public waterways unless in accordance with NPDES permit. For guidance, contact the regional office of the U.S. Environmental Protection Agency.

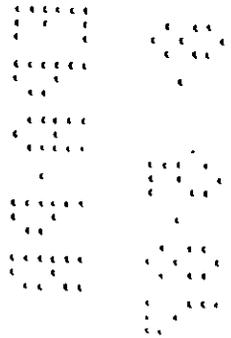
**PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING AGENT:** Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL**

**Prohibitions:** 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.  
**Pesticide Disposal:** Product or residues that cannot be used should be diluted with water before disposal in a sanitary sewer.  
**Container Disposal:** 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)



SWIMMING POOLS

To maintain the pool, add manually or by a feeder device 12.5 oz(1-2/3 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:

<u>Gallons of Water</u>	<u>Sodium Hypochlorite Solution Required</u>	<u>Gallons of Water</u>	<u>Sodium Hypochlorite Solution Required</u>
500	3/4 oz.(4 teaspoons)	10,000	12.5 oz.(1-2/3 cup)
1000	1 1/2 oz.(8 teaspoons)	25,000	31.5 oz.(4 cups)
5000	6.5 oz.(7/8 cup)		

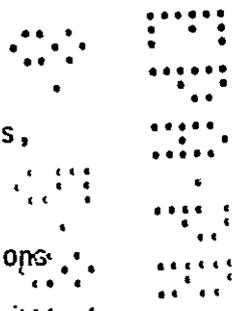
Every 7 days, or as necessary, to combat the growth of algae, superchlorinate the pool with 64 to 128 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual 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 sprinkler 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, bottlefillers, 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.



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## MEAT AND POULTRY PROCESSING PLANTS

Surfaces or articles to be sanitized must be thoroughly pre-cleaned. Solutions containing 600 ppm available chlorine by weight (7½ oz. (1 cup) sodium hypochlorite solution per 10 gallons water) may be used for sanitizing walls, floors, ceilings and similar areas. Maintain contact with sanitizer for at least 2 minutes. Do not rinse after sanitizing. Solutions containing 200 ppm available chlorine (2.5 oz. (1/3 cup) sodium hypochlorite solution per 10 gallons water) may be used on edible product equipment. Maintain contact time with sanitizer for at least 2 minutes. Do not rinse after sanitizing. Do not allow the solution to come directly in contact with meat or poultry.

### DRINKING WATER DISINFECTION

Sodium hypochlorite solution may be used to disinfect water supplies. Mix a ratio of 1.5 oz. of this product to 100 gallons water. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency not less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

### FOOD EGG SANITIZATION

Thoroughly clean all eggs. Thoroughly mix 2.5 oz. (1/3 cup) of this product with 10 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130°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.

### RESTAURANTS AND TAVERNS

After washing with dishwashing detergent and rinsing with clean water, immerse utensils in 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 with sanitizer for at least 2 minutes and allow sanitizer to drain. Do not rinse utensils with water after treatment.

### MACHINE DISHWASHING TERMINAL RINSE SANITATION

As a terminal sanitizing rinse for pre-cleaned food utensils, adjust automatic dispensing equipment to provide a sanitizing use solution of 100 to 200 ppm available chlorine by weight according to requirements of Public Health Authorities. Use solution should be tested frequently with a suitable chlorine test kit to ascertain that the rinsate strength does not fall below 50 ppm in absence of a test kit a starting concentration of 200 ppm should be used. Do not rinse utensils with water after treatment.