

62495-3

9/7/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Petra Chemical Company
2929 Storey Lane
Dallas, Texas 75220

SEP 7 2001

Attention: E.D. Canada, Jr.
Chemist

Subject: Liqui-Chlor Sodium Hypochlorite Solution
EPA Registration Number 62495-3
Your Amendment Dated August 21, 2001

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise PR Notices 2001-1 is acceptable provided that you make the labeling change listed below before you release the product for shipment bearing the amended label.

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 other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA".

A stamped copy is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment bearing the amended label.

If you have any questions regarding this letter, please contact Delores Williams at (703) 308-6372.

Sincerely,



Robert S. Brennis
Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510C)

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

**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 IN 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 MANNER
INCONSISTENT WITH ITS LABELING.**

STORAGE AND DISPOSAL

PROHIBITIONS: DO NOT CONTAMINATE FOOD OR FEED BY STORAGE, DISPOSAL OR CLEANING 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 RINSATES 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).

**LIQUI-C
SODIUM HYP
SOLU**

**ACTIVE INGREDIENTS:
SODIUM HYPOCHLORITE
INERT INGREDIENTS**

KEEP OUT OF REACH OF

- FIRST**
- If on skin or clothing:**
 - Take off contaminated clothing
 - Rinse skin immediately with plenty of water for 15-20 minutes
 - Call a poison control center or doctor for treatment advice.
 - If in eyes:**
 - Hold eye open and rinse slowly and gently with water for 15-20 minutes
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing
 - Call a poison control center or doctor for treatment advice.
 - If swallowed:**
 - Call poison control center or doctor immediately for treatment advice.
 - Have person sip a glass of water if able to swallow.
 - Do not induce vomiting unless told to do so by the poison control center or doctor
 - Do not give anything by mouth to an unconscious person.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor for treatment. You may also contact 1-800-424-9300 for emergency assistance.

NOTE TO PHARMACEUTICALS

Probable mucosal damage may contraindicate use.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

DEGRADES WITH AGE. USE A TEST KIT AND INCREASE DOSAGE AS NECESSARY TO MAINTAIN RESIDUAL CHLORINE IN THE POOL WATER IS MAINTAINED AT A MINIMUM CONCENTRATION OF 1.0 ppm. EPA REG. NO. 62495-3

NET CONTENTS:

10% Trade Percent
Sodium Hypochlorite
(1.2% Av. Chlorine by Vol)



Petra Chemical
2929 Storey
Dallas, Texas

**Shown at 100% Actual Size (22" x 6.25")
Colors: Black**

(Exterior dotted line for visual purposes only and does not print)

DIRECTIONS FOR USE

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 TREATMENTS 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	3/4 OZ. (4 TEASPOONS)
1,000	1-1/4 OZ. (8 TEASPOONS)
5,000	6.5 OZ. (7/8 CUP)
10,000	12.5 OZ. (1-2/3 CUPS)
25,000	31.5 OZ. (4 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 SPRINKLER CAN.

COMMERCIAL LAUNDRY 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 6000 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, CHUMS, 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 (8-1/2 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 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 REUSED TO SANITIZE EGGS.

RESTAURANTS AND TAVERNS

AFTER WASHING WITH DISHWASHER 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 RINSE 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.

DISINFECTION OF COOLING TOWER WATER

FOR THE CONTROL OF BACTERIA, ALGAE AND FUNGI, ADD SODIUM HYPOCHLORITE SOLUTION TO THE TOWER BASIN, DISTRIBUTION BOX OR SOME OTHER POINT TO INSURE UNIFORM MIXING.

INITIAL DOSE: WHEN THE SYSTEM IS NOTICEABLY FOULED, APPLICATION OF 2/3 PINT - 1-1/4 PINT (10-20 OZ.) OF SODIUM HYPOCHLORITE SOLUTION PER 1000 GALLONS OF WATER IN THE SYSTEM WILL ACHIEVE 7.5-15.0 PPM AVAILABLE CHLORINE BY WEIGHT. IF NECESSARY, REPEAT PROCEDURE UNTIL CONTROL IS ACHIEVED.

SUBSEQUENT DOSE: WHEN MICROBIAL CONTROL IS EVIDENT, APPLICATION OF 1/3 PINT - 2/3 PINT (5-10 OZ.) OF SODIUM HYPOCHLORITE SOLUTION PER 1000 GALLONS OF WATER IN THE SYSTEM WILL ACHIEVE 3.75-7.5 PPM AVAILABLE CHLORINE BY WEIGHT. APPLY TREATMENT WEEKLY OR AS NEEDED TO MAINTAIN CONTROL. BADLY FOULED SYSTEMS MUST BE CLEANED BEFORE TREATMENT IS BEGUN. THIS SODIUM HYPOCHLORITE SOLUTION WEIGHS 10.2 LBS. PER GALLON.

HYPOCHLORITE SOLUTION

JN 1791



ACCEPTED
with COMMENTS
in EPA Letter Dated:

SEP 7 2001

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, and the Federal Food,
Drug, and Cosmetic Act as
amended, and all other laws
thereunder.

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