

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

EPA REGISTRATION NO.

62495-3

DATE OF ISSUANCE

AUG 12 1995

TERM OF ISSUANCE

NOTICE OF PESTICIDE: ☐ REGISTRATION  
☒ REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

Liqui-Chlor Sodium  
Hypochlorite Solution

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

The Excelex Corp.  
2929 Storey Lane  
Dallas, TX 75220

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.

Make the following labeling changes before you release the product for shipment:

- a. In the label in the ingredient statement, ~~or~~ Active Ingredients should be in singular.

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.

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

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.



Ruth G. Douglas  
Product Manager (32)  
Antimicrobial Program Branch  
Registration Division (7505C)

ER MAY BE USED ON EITHER PROO  
-OR AT LEAST 2 MINUTES. DO NOT  
DOWN DIRECTLY IN CONTACT WITH

ON  
T WATER SUPPLIES. MIX A RATIO OF  
FEEDING. THIS SOLUTION WITH A  
ADAL 1% AT LEAST 0.2 PPM AND NO  
TION SYSTEM. CHECK WATER FRE  
APLING MUST BE CONTACTED AT A  
TERMIN PRIMARY DRINKING WATER  
OR FURTHER DETAILS.

3. CLIP THIS PRODUCT WITH 10  
HOLDING SOLUTION. THE SANITIZER  
Y SANITIZER SO THAT THE EGGS ARE  
Y PREPARE LASINGOR RHAKING DO  
Y BE PREPARED TO SANITIZE EGGS

S  
W. WITH CLEAN WATER. WASH THE  
OUT OF THIS PRODUCT. AS IN GAL  
Y WITHOUT MAINTAINING. START WITH  
TO CLEAN. DO NOT USE UTENSILS

4. SANITATION  
TENSILS. ADJUST AUTOMATIC INS  
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ANY. TREATMENT WATER. ON AS  
A BE. 10% TO 10% TO 10% TO 10%  
2. 10% TO 10% TO 10% TO 10%

## SODIUM HYPOCHLORITE SOLUTION



ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

AUG 6 2 1995

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide  
registered under EPA Reg. No. 6249

BEST COPY AVAILABLE

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

AUG 02 1995

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No. 62495-3

# DIRECTIONS FOR USE

## 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 DOORS HAVE DISSIPATED.

**ENVIRONMENTAL HAZARDS:** 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 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 SEWAGE TREATMENT PLANT AUTHORITY FOR GUIDANCE. CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA.

**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).

## SWIMMING POOLS

TO MAINTAIN THE POOL, ADD MANUALLY OR BY A FEEDER DEVICE 12.5 OZ (1 1/2 CUP) OF THIS PRODUCT FOR EACH 1000 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. USE THE PSI 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	1 1/2 OZ (1/4 CUP)
1000	3 OZ (1/2 CUP)
5000	15 OZ (2 1/2 CUPS)
10000	30 OZ (4 1/2 CUPS)
25000	75 OZ (11 1/4 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 1000 GALLONS OF WATER TO YIELD 5 TO 10 PPM AVAILABLE CHLORINE BY WEIGHT. CHECK THE LEVEL OF AVAILABLE CHLORINE WITH A TEST KIT TO AVOID OVERCHLORINATION. THE CHLORINE RESIDUAL IS BETWEEN 1.0 TO 3.0 PPM. ON THE FREQUENTLY 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 (EPA).

## COMMERCIAL LAUNDRY BLEACH SANITIZER

WEI FABRICS OR CLOTHES SHOULD BE SPIN 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 TO THE PREWASH PRIOR TO WASHING FABRICS/CLOTHES IN THE HEAVY DUTY WASH CYCLE WITH HARD DETERGENT. TEST THE LEVEL OF AVAILABLE CHLORINE. IF SANITIZATION HAS BEEN ACHIEVED IT STANDS AND WASHES THE FABRIC. IF THE AVAILABLE CHLORINE LEVEL HAS (REMOVED) BELOW 200 PPM.

## MILK PLANT AND DAIRY EQUIPMENT

BOTTLES, BOTTLENECKERS, CONTAINERS, PASTEURIZERS, CULMUS, SANITIZATION 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 YIELD 200 PPM AVAILABLE CHLORINE BY WEIGHT). MAINTAIN CONTACT TIME AT LEAST 2 MINUTES AFTER SANITIZING. (DO NOT RINSE EQUIPMENT WITH WATER AFTER THE TREATMENT AND DO NOT SOAK EQUIPMENT OVERNIGHT).

## MEAT AND POULTRY PROCESSING PLANTS

SURFACES (ARTICLES) TO BE SANITIZED MUST BE THOROUGHLY PRECLEANED. SOLUTIONS (CLEANING) 200 PPM AVAILABLE CHLORINE BY WEIGHT (2.5 OZ OF 1 CUP) SODIUM HYPOCHLORITE SOLUTION PER 10 GALLONS WATER MAY BE USED FOR SANITIZING. WASH, RINSE, DRY (RINSE AND SANITARY AREAS MAINTAIN CONTACT WITH SANITIZER FOR AT LEAST 2 MINUTES. DO NOT RINSE AFTER SANITIZING. SOLUTIONS CONTAINING 200 PPM AVAILABLE CHLORINE (2.5 OZ 1/4 CUP).

(CUP) SODIUM HYPOCHLORITE SOLUTION PER 10 GALLONS WATER) MAY BE USED ON FOOD PROCESS 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 0.5 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 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 (1/2 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 TOWERS

AFTER WASHING WITH DISHWASHER DETERGENT AND RINSING WITH CLEAN WATER, IMMEDIATELY IMMERSIVE 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 SANITIZATION

AS TERMINAL SANITIZING RINSE FOR PRE-CLEANED FOOD UTENSILS, ADJUST AUTOMATIC DISHWASHING 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 SANITIZING 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 MAINTAIN UNIFORM MIXING).

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

**SURROUNDING DOSE:** WHEN MICROBIAL CONTROL IS EVIDENT, APPLICATION OF 1 1/2 PINT (7 1/2 OZ) OF SODIUM HYPOCHLORITE SOLUTION PER 1000 GALLONS OF WATER IN THE SYSTEM WILL ACHIEVE 3.75 TO 7.5 PPM AVAILABLE CHLORINE BY WEIGHT. APPLY TREATMENT WEEKLY OR AS NEEDED TO MAINTAIN CONTROL. BACKWASH TO SYSTEMS MUST BE CLEANED BEFORE THE START OF IS BEGUN. THIS SODIUM HYPOCHLORITE SOLUTION WEIGHS 12 LBS PER GALLON.

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