

28690-1

1-10-2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 10 2002

Mr. Douglas Schirmer  
Schirmer's LLC  
2916 Annandale Road  
Falls Church, VA 22042

Subject: Sodium Hypochlorite Solution  
EPA Registration Number 28690-1  
Application Date: 11/15/01  
Receipt Date: 11/16/01

Dear Mr. Schirmer:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable:

- Adding DOT Verbiage
- Revising the First Aid Statement Per PR Notice 2001-1
- Adding Additional Uses

**Conditions**

Revise the label as follows:

1. The "Establishment Number" must be placed on the label.
2. Separate the "Keep Out of Reach of Children" followed by the signal word "Danger" from the "First Aid" Statement on the label.
3. Place the heading "First Aid" in the boxed areas above "If on skin...".

**General Comments**

A stamped copy of the accepted labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

Should you have any questions or comments concerning this letter, please contact Delores Williams at (703) 308-6372.

Sincerely,



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

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

**DANGER:** Corrosive may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles 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 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 or EPA.

**PHYSICAL OR 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. **NOTE:** This product degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

**STORAGE AND DISPOSAL**

**STORAGE:** Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration.

**DISPOSAL:** In cases of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse container but place in trash collection or triple rinse with water and return to supplier with all plugs and caps intact. Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

**SODIUM  
HYPOCHLORITE SOLUTION**

**ACTIVE INGREDIENT:**  
Sodium Hypochlorite ..... 12.5%  
**INERT INGREDIENTS:** ..... 87.5%  
**TOTAL:** ..... 100.0%

**DISINFECTANT: BACTERICIDE DEODORANT**  
For use in food processing plants, farms, restaurants, hotels, swimming pools, and in industrial applications as a bleach. See directions.

**KEEP OUT OF REACH  
OF CHILDREN  
DANGER**

If on skin or clothing	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>

**SCHIRMER'S LLC**  
2916 Annandale Road  
Falls Church, VA 22042

EPA Reg.# 28690-1

NETS: \_\_\_\_\_

**DIRECTIONS FOR:**

**SWIMMING POOL WATER DISINFECTION**

For a new pool or spring start-up, superchlorinate with 52 to 104 fl. oz. of this product per 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of chlorine with test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 and 100 ppm. To maintain the pool add manually or by a feeder device 11 fl. oz. if this product per 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 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 on temperature and number of swimmers. Every 7 days, or as necessary, superchlorinate the pool with 52 to 104 fl. oz. of this product per 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 re-enter pool until the chlorine residual is between 1.0 to 3.0 ppm. At the end of the swimming season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

**COOLING TOWER/EVAPORATIVE CONDENSER WATER - SLUG FEED METHOD-**

**Initial Dose:** When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. **Subsequent Dose:** When microbial controls is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

**COMMERCIAL LAUNDRY BLEACH**

Mix 1 gallon to 14 gallons of water, introduce Sodium Hypochlorite into your normal laundry process.

**DISINFECTION OF DRINKING WATER**

**PUBLIC SYSTEMS:** Mix a ratio of 1 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypochlorinator until a free available 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 no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

**SANITATION OF NONPOROUS FOOD CONTACT SURFACES:**

**RINSE METHOD:** A solution of 100 ppm available chlorine may be used in the sanitizing solution of a chlorine kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare 100 ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to re-establish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be re-used for sanitizing purposes.

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DOT DESCRIPTION:

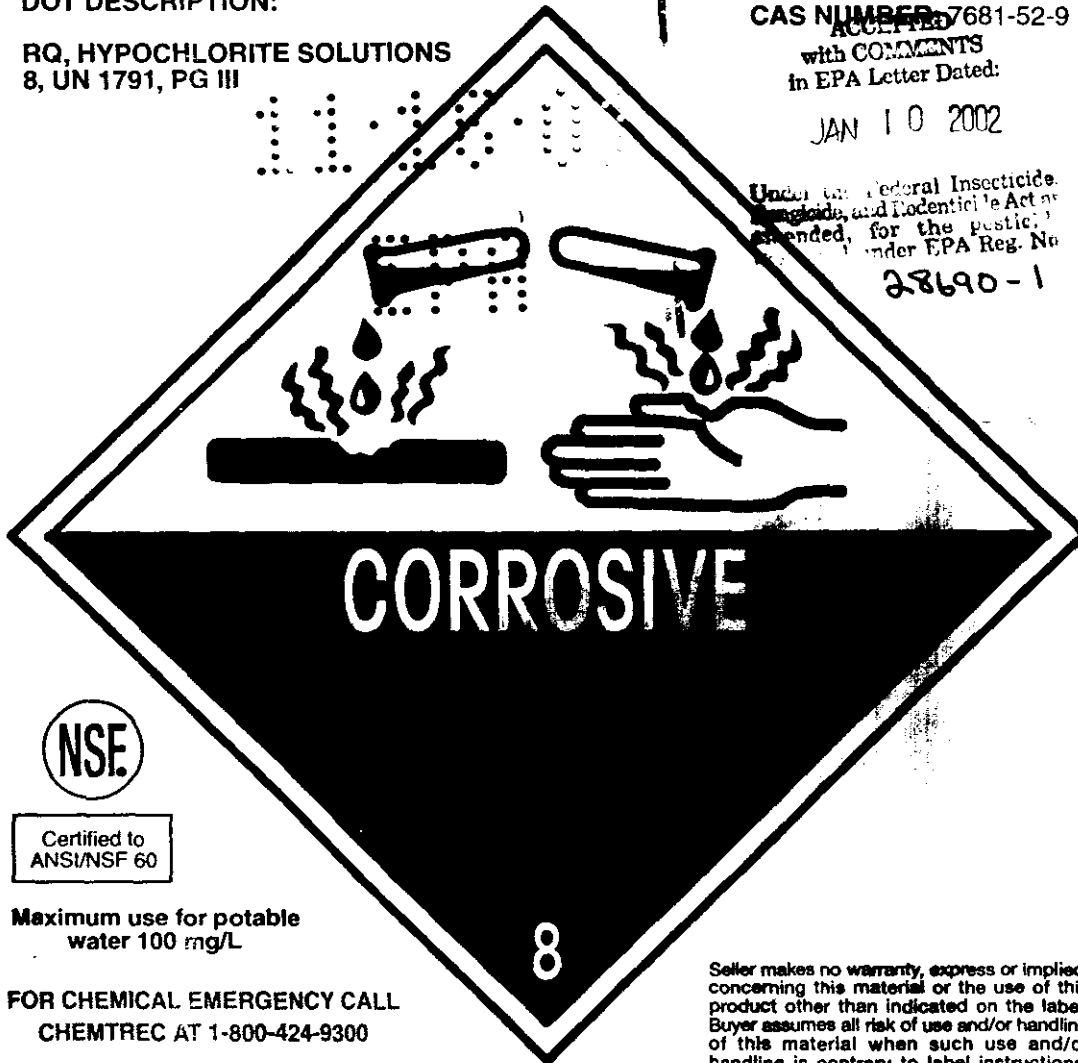
RQ, HYPOCHLORITE SOLUTIONS  
8, UN 1791, PG III

CAS NUMBER: 7681-52-9

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JAN 10 2002

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
under EPA Reg. No.  
28690-1



Certified to  
ANSI/NSF 60

Maximum use for potable  
water 100 mg/L

FOR CHEMICAL EMERGENCY CALL  
CHEMTREC AT 1-800-424-9300

CONSULT MSDS FOR ADDITIONAL INFORMATION

Seller makes no warranty, express or implied,  
concerning this material or the use of this  
product other than indicated on the label.  
Buyer assumes all risk of use and/or handling  
of this material when such use and/or  
handling is contrary to label instructions.

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