



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

FEB 26 2008

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Heather R. Bjornson, Agent  
Champion Packaging & Distributing, Inc.  
1840 Internationale Parkway  
Woodbridge, IL. 60517

RE: Label Amendment Dated December 3, 2007  
Product Name: Sodium Hypochlorite Solution  
EPA Registration Number: 55852-3

Dear Ms. Bjornson:

The Agency has reviewed your application submitted in accordance with continuing registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, and determined the action acceptable with the following conditions:

- Remove alternate brand names from top. These can not appear on label.
- Revise the First Aid treatment in the following order: If in Eyes, If on Skin or Clothing, If Swallowed.
- Move **Directions for Use** and "It is a violation of Federal law to use this product in a manner inconsistent with its labeling" directly above Swimming Pool Water Disinfection.
- Move the block of text beginning with "Do not transfer" to Storage and Disposal section prior to last paragraph.
- Delete "Interim" from National Primary Drinking Water Regulations.
- Change the spelling of nit to not.
- Fix the following typos: tablespoons to tablespoon, aa to a, 2200 to 200, **vegerable** to **vegetable**, managers to mangers, and waterier to waterers.
- Delete the Optional label claim "Germicidal Detergent Sanitizer" as this too broad a statement.

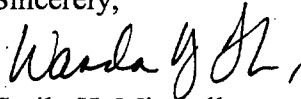
In summary, your request to add uses from the Sodium and Calcium Hypochlorite Reregistration Eligibility Decision document is acceptable. A copy of your stamped label is enclosed. Please submit a final printed label for the file.

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If you have questions concerning this letter, please contact Tom Luminello by telephone, (703) 308-8075, or by e-mail at [luminello.tom@epa.gov](mailto:luminello.tom@epa.gov).

Sincerely,

  
for

Emily H. Mitchell

Product Manager 32

Antimicrobials Division (7510-P)

Enclosure

delete all 3 8 6

# SODIUM HYPOCHLORITE SOLUTION

[Alternate Brand Names: **Champion Pool Shock 12.5%, Clear-X Pool Shock, Malibu Pool Shock, ProChlor Pool Shock, Pro-Tech Liquid Chlorinator, Sparkle 'n Shine, Wolf Pools & Spas, Inc. SHOCK, Warsaw Chemical Co, Inc. Sodium Hypochlorite Pool Brite Sanitizer**]

**Active Ingredient:**  
Sodium Hypochlorite.....12.5%  
**Inert Ingredients..... 87.5%**  
**Total.....100.0%**  
Available Chlorine 15%

## KEEP OUT OF REACH OF CHILDREN DANGER

### FIRST AID:

**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 eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED,** immediately call a poison control center or doctor 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.

**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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

FOR MEDICAL EMERGENCY Call INFOTRAC 1-800-535-5053

### 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. Wear safety glasses and rubber gloves when handling this product. Wash thoroughly after handling. May be fatal if swallowed. 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 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 local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Chlorine must be allowed to dissipate from treated pool water before discharge. Do not make any chlorine application within 24 hours of discharge.

### 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, which can also be fatal. Mixing this product with cyanide compounds will release cyanogen chloride which is irritating to eyes, lungs and mucous membranes, which can also be fatal.

### STORAGE AND DISPOSAL:

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. Product or rinsates that cannot be used, in EPA letter Dated:

Packaged by:  
Champion Packaging, Inc.  
1840 Internationale Parkway  
Woodridge, IL 60517  
Net Weight:

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, Formulation No. 55852-3

should be diluted with water before disposal in a sanitary sewer. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

Empty containers may contain hazardous product residues. Rinse empty container thoroughly with water and either return to manufacturer or discard by placing this container in trash collection or burying in an approved landfill.

### SWIMMING POOL WATER DISINFECTION

For a new pool or for spring start-up, superchlorinate with 52 to 104 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. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 PPM.

To maintain the pool, add manually or by a feeder device 11 oz. 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.

Every 7 days or as necessary, superchlorinate the pool with 52 to 104 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 enter pool until the chlorine residual drops below 4.0 PPM.

At the end of the swimming pool 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.

**WINTERIZING POOLS:** While water is still clear and clean, apply 3 oz. of product per 1000 gallons, while filter is running, to obtain a 3 PPM available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

See technical data sheet for other use directions.

### DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not transfer to unmarked containers. Keep containers closed with closure end up. Use in a well-ventilated area. Before use, review material safety data sheet for other information, including possible chronic health effects. When opening, loosen closure carefully.

**NOTE:** Sodium hypochlorite solutions degrade with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chloride.

EPA Reg. No. 55852-3  
Est. Reg. 55852-IL-001

FOR CHEMICAL EMERGENCY DURING TRANSPORTATION ONLY  
Call INFOTRAC 1-800-535-5053  
24 hours per day, 7 days per week

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ACCEPTED  
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EPA Letter Dated:

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**DIRECTIONS FOR USE IN EATING ESTABLISHMENTS:**

(1) Scrape and prewash utensils and glasses whenever possible. (2) Wash with a good detergent or compatible cleaner. (3) Rinse with clean water. (4) Sanitize in a solution of 1/4 ounce to each gallon water (200 PPM). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code. (5) Place sanitized utensils on a rack or drainboard to air dry. Note: A clean potable water rinse following sanitization is not permitted under Section H 96.16 (2) (c) of the Wisconsin Administrative Code.

**DILUTION TABLE**

|               |                                     |
|---------------|-------------------------------------|
| 100 PPM.....  | 1/4 ounce to 2 gallons water        |
| 200 PPM.....  | 1/4 ounce to 1 1/4 gallons water    |
| 400 PPM.....  | 1/2 ounce to 1 1/4 gallons water    |
| 1000 PPM..... | 1 1/4 ounces to 1 1/4 gallons water |

**LAUNDRY:** To bleach and sanitize white and colorfast cotton, linen, nylon, dacron, orlon, and rayon, use 1/2 cup bleach per load for conventional washing machine and 1/4 cup for front loading machine. Add to presoak, wash water or first rinse. If clothes are in machine, dilute bleach in one quart water before adding.

**LAUNDRY SANITIZERS (Commercial Laundry Sanitizers)**

Wet fabrics or cloths should be spun dry prior to sanitization. Thoroughly mix 2 oz. of this product with 10 gallons of water to yield 200 ppm chlorine. Promptly after mixing the sanitizer, add the solution into pre-wash prior to washing fabric/cloths in the regular wash cycle with good detergent. Test the level of available chlorine. If solution has been allowed to stand. Add more of the product if available chlorine level has dropped below 200 ppm.

**STAIN REMOVAL:** For stubborn stains from grass, mildew, ink, scorch, coffee, fruit, berry, etc. mix 1/8 cup of bleach in one quart water. Immerse fabric for up to 5 to 10 minutes. Rinse well in clear water. Repeat if necessary. Use porcelain, rubber, or glass container.

**TO WHITEN NYLON & OTHER SYNTHETICS** that have turned yellow or gray: Use one tablespoon bleach per gallon of water. Soak clean fabric in solution 15 to 20 minutes, rinse well. Repeat if necessary.

**DEODORIZING AND SANITIZING:** For baby clothes, diapers, dish cloths, etc., first wash, then soak in solution of 1/2 tablespoon of bleach to 1 gallon of water for 5 minutes. Rinse well. For wooden utensils, floors, breadboards, sinks, etc., wash in normal manner, then soak or wet with a solution of 1/8 cup of bleach in 1 quart water. Let stand for 5 minutes. Air dry.

Typo

**TO CLEAN BATHROOM AND KITCHEN:** For refrigerator, tile, bathtub, etc., use one tablespoon bleach to 1 quart water. Simply wash, rinse, apply bleach solution, let air dry.

**SPAS, HOT TUBS, IMMERSIONS TANKS, ETC.**

**SPAS/HOT TUBS** - Apply 5 oz. of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 PPM, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.6. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 5 oz. of product per 1000 gallons of water over the surface to maintain a chlorine concentration of 5 PPM.

After each use, shock treat with 8 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 4 oz. of product daily per 1000 gallons of water to maintain a 3 PPM chlorine concentration.

**DIRECTIONS FOR DISINFECTION OF POTABLE WATER FOR HOME WELL WATER SYSTEMS**

Dilute this sodium hypochlorite solution in the ratio of one part solution to nine parts softened water. Mix thoroughly and begin feeding with a hypochlorinator (metering pump). Maintain a free available chlorine residual of at least 0.2 PPM and not more than 0.6 PPM throughout the distribution system, as determined by a DPD chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Check water frequently with a DPD chlorine test kit. For further details, contact your local Health Department. *delete*

**DIRECTIONS FOR SANITIZING FOOD PROCESSING OR DAIRY EQUIPMENT**

Clean equipment in the normal manner. Just before using, rinse all surfaces thoroughly with a sodium hypochlorite solution containing 200 PPM available chlorine. One ounce (2 tbsp.) of this solution per four gallons of water will provide approximately 200 PPM available chlorine. Maintain contact with disinfectant for a minimum of two minutes. Do not rinse with water after treatment. Do not soak overnight.

**DIRECTIONS:**

Pour directly into pool or feed through your mechanical chlorinator. Apply in evening or early morning as sunlight dissipates chlorine rapidly.

ACCEPTED with COMMENTS

| Pool Capacity In gallons | Suggested Daily Dosages | EPA Letter Dated: |
|--------------------------|-------------------------|-------------------|
| 10,000                   | 11 oz.                  | FEB 26 2008       |
| 20,000                   | 22 oz.                  |                   |
| 30,000                   | 33 oz.                  |                   |
| 40,000                   | 44 oz.                  |                   |
| 50,000                   | 55 oz.                  |                   |
| 75,000                   | 82 oz.                  |                   |
| 100,000                  | 110 oz.                 |                   |

For food contact surfaces, available chlorine must be maintained between 100 PPM to 200 PPM.

|           |   |
|-----------|---|
| .1ppm -   | .10 fluid ounces per 1000 gallons water |
| 1ppm -    | 1.0 fluid ounces per 1000 gallons water |
| 10ppm -   | 10 fluid ounces per 1000 gallons water  |
| 100ppm -  | 99 fluid ounces per 1000 gallons water  |
| 200ppm -  | 198 fluid ounces per 1000 gallons water |
| 800ppm -  | 792 fluid ounces per 1000 gallons water |
| 1000ppm - | 990 fluid ounces per 1000 gallons water |

|             |                                       |
|-------------|---------------------------------------|
| 200 ppm -   | .99 fluid ounces per 5 gallons water  |
| 800 ppm -   | 3.97 fluid ounces per 5 gallons water |
| 1000 ppm -  | 4.99 fluid ounces per 5 gallons water |
| 5000 ppm -  | 25 fluid ounces per 5 gallons water   |
| 10000 ppm - | 50 fluid ounces per 5 gallons water   |

**Sanitizing (Sanitization of) Nonporous Food Contact Surfaces**

- Prepare a sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2 1/2 gallons of water to provide approximately 200 PPM available chlorine by weight. Clean all 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. Do not rinse equipment with water after treatment and do not soak equipment overnight.

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**RINSE METHOD** - A solution of 100 PPM available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containin an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water to product 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 reestablish 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.

**IMMERSION METHOD** - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water to product approximately 2200 ppm chlorine by weight.

Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow sanitizer to drain. 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 reestablish a 200 ppm residual. Do not rinse the 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.

**CLEAN-IN-PLACE METHOD** - Thoroughly clean equipment after use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 2 oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to insure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. Do not rinse system with potable water prior to use.

**SPRAY-FOG METHOD** - Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Prepare a 600 ppm by thoroughly mixing the product in a ratio of 6 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after each use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate the area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution, with a 200 ppm solution.

**To Sanitize Milking Equipment:** Prepare sanitizing solution as above immediately prior to use. All surfaces to be sanitized should be properly cleaned before application of chlorine solution. Milking Act amended, for the pesticide, registered under EPA Reg. No.

utensils should be submerged in the solution for at least 2 minutes and allowed to drain. Do not rinse equipment with water after treatment. 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 reestablish a 200-PPM residual. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

**Sanitizing Porous Food Contact Surfaces:** Prepare a solution of approximately 600 PPM by thoroughly mixing 6 Tbsp. (3 oz.) of this product with 2 1/2 gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600-PPM solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200-PPM sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2-1/2 gallon of water. Prior to using equipment, rinse all surfaces with 200-PPM available chlorine solution. Do not rinse with water and do not soak equipment overnight.

**Spray-Fog Method** Pre-clean all surfaces after use. Use a 200-ppm available chlorine solution to control bacteria, mold or fungi and a 600-ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Prepare a 600-ppm solution by thoroughly mixing the product in a ratio of 6 oz product with 10 gallon of water. Use spray or fogging equipment, which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600-ppm solution, with a 200-ppm solution.

**DISINFECTION OF DRINKING WATER (Public / Individual Systems)**

**PUBLIC SYSTEMS** - Mix a ration of 1 oz. of this product to 100 gallons of 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 no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

**INDIVIDUAL SYSTEMS - DUG WELLS** - Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeves opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Contact your local Health Department for further details.

**AGRICULTURAL USES**

**EGG SHELL SANITIZING** - Thoroughly clean eggs. (Mix approximately 1 Tbsp. (1/2) oz. of bleach per gallon of warm water) (Thoroughly mix 2 oz. 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 water sanitizer so that the eggs are thoroughly wetted. Allow eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be reused to sanitize eggs.

**(FOOD) (FRUIT) & VEGERABLE WASHING** - Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 5 oz. of this product in 200 gallons of water to make a sanitizing

Not type

200

delete

vegetable

FEB 26 2008

solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with a sanitizing solution prior to packaging. Rinse all fruit with potable water only prior to packaging.

**Farm Premises** Remove all animals, poultry and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, wall and surfaces of barn, pens, stalls, chutes and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000-ppm available chlorine for a period of 10 minutes. A 1000-ppm solution can be made by thoroughly mixing 11 oz of this product with 10 gallons of water. Immerse all halters, ropes and other types of equipment used in handling and restraining animals or poultry as well as the cleaned forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed areas. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated food racks managers, troughs automatic feeders and waterer must be rinsed with potable water before reuse.

managers

waterer

Optional Label Claims:

- Liquid Chlorinating Product
- Liquid Chlorinator (for Swimming Pool Water)
- Liquid Chlorinating Chemical for Swimming Pools
- Bacteria and Algae Control
- Liquid Swimming Pool Chlorine
- For Swimming Pool and Water Treatment
- For Swimming Pool Chlorination
- Vented Cap, Keep Upright
- ~~Germicidal Detergent Sanitizer~~

delete

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
FEB 26 2008

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

55852-3