

1258-1250

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

February 1, 2008

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mark E. Burt  
Regulatory Manager  
Arch Chemicals, Inc.  
1955 Lake Park Drive  
Suite 100  
Smyrna, GA 30080

Subject: Arch 52% Calcium Hypochlorite  
EPA Registration No. 1258-1250  
Application Date: January 31, 2008  
Receipt Date: January 31, 2008

Dear Mr. Burt:

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

- Addition of optional marketing statements
- Addition of optional advisory statements
- Revisions to comply with Container Regulations in subpart H Container Labeling §156.140
- Addition of "responsible care" symbol as advisory statement

**General Comments**

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Wanda Henson at 703-308-6345.

Sincerely,

Emily H. Mitchell  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

CONCURRENCES

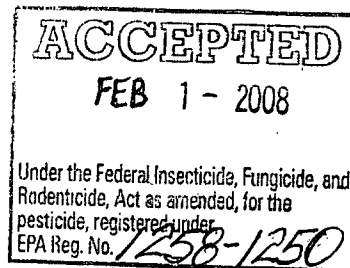
SYMBOL	7510P	7570P						
JRNAME	ER. Berg	Henson						
DATE	2/1/08	2/1/08						

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# ARCH 52% CALCIUM HYPOCHLORITE

**PENDING**  
**KEEP OUT OF REACH OF CHILDREN**

**DANGER**



Contamination or improper use may cause fire, explosion or the release of toxic gases. Do not allow product to contact any foreign matter, including other water treatment products. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter. Do not add water to this product. Add only into water. (The following optional statement is for use on residential use swimming pool and spa products) **[Do not mix this product with a small amount of water. Only add directly to your [pool] [or spa].]** Highly Corrosive. Causes skin burns and irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin.

Read all precautionary statements on label and all first aid statements before use.

<b>ACTIVE INGREDIENT:</b>	
CALCIUM HYPOCHLORITE.....	52.0%
<b>INERT INGREDIENTS.....</b>	<b>48.0%</b>
TOTAL.....	100.0%

Available Chlorine.....49 %

EPA Reg. # 1258- 1250  
EPA Est. # XXXX

Arch Chemicals Inc.  
1955 Lake Park Drive  
Smyrna, GA 30080

Net Wt. XXXX

Patent Pending

**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 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 Swallowed:** Call a 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person. **If Inhaled:** Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **IN CASE OF EMERGENCY CALL: 1-800-654-6911**

- {OPTIONAL MARKETING CLAIMS}  
 [Kills bacteria]  
 [Controls Algae]  
 [Destroys organic contaminants]  
 [No need to predissolve]

[Routine Chlorinator]  
 [Shock Treatment (and) Superchlorinator for Swimming Pools and Spas]  
 [Restores a crystal clarity to pool water]  
 [Buffered Sanitizer]  
 [Oxidizer]  
 [Removes organic waste and produces sparkling clean swimming pool water.]  
 [For pool startup and weekly shock treatment]  
 [For heavy bather loads or after heavy rains]  
 [Will not cause over-stabilization]  
 [Contains no cyanuric acid, Sanitizes pool water]  
 [Swimming pool sanitizer]  
 [Innovative]  
 [Patent pending]  
 [Ideal for vinyl and concrete pools]  
 [Fast Dissolving]  
 [Sanitizes spa water]  
 [Produces sparkling clean spa water]  
 [For spa start up and weekly shock treatment]  
 [Restores crystal clarity to spa water]  
 [For use in bromine or chlorine treated spas]  
 [Step 2]  
 [Superchlorinator] {refers to claim previously on list}  
 [Buffered for pH control  
 For all pool types]

{Optional statements for Mass Retail Brands}  
 [Step 1 Balance  
 Step 2 Sanitize  
 Step 3 Shock  
 Step 4 Prevent Algae]

{Optional statements for inclusion on dealer direct brands}  
 [Step 1. Sanitize  
 Step 2. Shock  
 Step 3. Add Algaecide]

[This product is a concentrated chlorinating agent.] [It is in a dry, free-flowing form.] [It kills bacteria, controls algae and destroys organic contaminants in pools.]

**DIRECTIONS FOR USE:** It is a violation of federal law to use this product in a manner inconsistent with its labeling. **READ ALL PRECAUTIONARY STATEMENTS BEFORE USE.**

{Use 1}{Swimming pools}

[**WHY YOU SHOULD USE THIS PRODUCT:** This is a highly effective, multi-purpose product that [sanitizes], [clarifies], [helps] prevent[s] algae and [shock treats your pool]. It is convenient, easy to use, and won't over-stabilize your pool. [For crystal clean [clear] pool water, follow our 4 step pool care program: Step 1: Test and balance pool water, Step 2: Sanitize., Step 3: Shock at least once a week, and Step 4: Add algaecide as directed.]. [For best results, follow a weekly program with our [brand] System. Consult your authorized [brand] dealer for advice on the system that best suits your pool and your lifestyle.] [Take a pool water sample to your authorized [brand] dealer regularly for a detailed water analysis.]]

**METHOD OF APPLICATION:** How To Use: [Do not pre-mix this product.] [Only add this product directly to your pool or skimmer.] {When contents are in a resealable container} [Use only a clean, dry [scoop][cup][lid] to measure this product]. [Do not use the [scoop][cup][lid] for any other purpose.] {When contents are in a single use bag for use as a shock for pools 10,000 gallons or larger} [Use entire contents when opened].  
 [Method for dosing directly into pool:]

Add the recommended dosage of this product during evening hours while the filter is running. When adding this product to your pool, broadcast the product evenly over a wide area in the deepest part of the pool. If any granules settle to the bottom of the pool use brush to disperse. [Method for skimmer addition:

[Use this method to avoid bleaching vinyl liner or paint.] Make sure that filter is on and properly recirculating through skimmer. Empty skimmer of all chemicals and/or debris. Contamination may cause an explosion or the release of toxic gases. Do not use this method when an automatic chemical dispensing device (e.g. feeder) is present. Pour this product slowly into skimmer, making sure that the material is drawn into the system at the same rate: do not allow this material to accumulate as toxic gases may be generated.]

~~{The handling directions above replace the following language} For one pound bag, use entire bag when opened. For other products, measure only with the clean, dry cup if provided. Do not use the cup for any other purpose. Add the recommended dosages of this product during evening hours while the filter pump is running. When adding this product to your pool, broadcast the product evenly over a wide area in the deepest part of the pool. If any of the granules settle to the bottom of the pool use brush to disperse. Let pump run 6 to 8 hours minimum after applying.~~

**[ROUTINE CHLORINATION:** Throughout the pool season, adjust pH to 7.2 – 7.6 and add 7 to 10 oz. of this product per 10,000 gallons of pool water daily or as often as needed to maintain chlorine residual at 1–4 parts per million (ppm). If you have stabilized your pool using [HTH] [brand] Stabilizer & Conditioner (or similar product) add 4 to 6 oz. per 10,000 gallons every other day or as often as needed to maintain a chlorine residual at 1-4 ppm. Follow "Method of Application". As a preventative treatment, you should shock treat your pool once a week to prevent pool problems. In addition to weekly shock treatment, you should shock treat to remedy problems which may occur when bathing loads are high, water appears hazy or dull, unpleasant odors or eye irritation occur, after heavy wind and rainstorms, or if algae does develop with resulting green color and slimy feeling walls.]

**[POOL SHOCK TREATMENT:** Add the recommended dosages of this product while the filter pump is running. See METHOD OF APPLICATION. When adding this product to your pool, broadcast the product evenly over a wide area in the deepest part of the pool. **DOSAGE RATE:** Adjust and maintain pH to 7.2 - 7.4 [with [HTH] [brand] pH Plus or [HTH] [brand] pH Minus] [or similar product]]. Follow label directions. Add 1 lb. (16 oz.) of this product per 12,000 gallons of water weekly to help prevent pool problems. Additional shock treatments {1 lb. (16 oz.) per 12,000 gallons of water} may be required to correct problems which are caused by: \* visible algae \* high bathing loads \* heavy wind and rainstorms Additional shock treatments will also remove \* unpleasant odors \* eye irritation. Do not reenter pool until the free available chlorine residual is 1 - 4 ppm. Shock treat your pool when opening, then weekly to prevent pool problems.]

**[ALGAE CONTROL:** If the sides or bottom of your pool develop algae spots, direct this product as close to the algae as possible. Follow "Shock Treatment" directions. **Note:** Prolonged contact with pool surfaces may cause staining or bleaching. Immediately after treatment thoroughly clean pool by brushing surface of algae growth, vacuum and cycle through filter. If necessary, repeat the treatment. Pool should not be entered until the chlorine residual is 1 to 4 ppm.]

**OPENING YOUR POOL:** Follow "Shock Treatment" directions. Allow 30 minutes for product to disperse and test chlorine residual with a pool test kit. Repeat dosage, as needed, until chlorine residual is 1 to 4 ppm.

**[WINTERIZING:** While the water is still clear and clean, prepare for long periods of disuse by gradually adding 1 lb. of this product per 7,000 gallons of pool water. Follow "Method of Application". Run the filter until completely dissolved. Cover the pool with a pool cover and prepare the heater, pump and filter components for winterizing by following manufacturers directions.]

**[WATER BALANCE:** For best product performance, swimmer comfort and crystal clear water: Maintain pH in the 7.2-7.6 range. Maintain total alkalinity in the 60-100 ppm range. Maintain calcium hardness above 200 ppm. Maintain available chlorine level at 1-4 ppm with the use of

your normal sanitizer. Use a reliable test kit that measures all these ranges. Use the [HTH] [brand] Pool Care products to make adjustments. Follow label directions for each product.]

{Or}

[Water Balance: For best product performance, swimmer comfort and crystal clear water, use [HTH] [brand] pool care products to maintain the following water balance:

	Acceptable Range for Balance
pH	7.2-7.6
Total Alkalinity	60-120 ppm
Calcium Hardness	Above 200 ppm
Available Chlorine	1-4 ppm

Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the pool. Use a reliable test kit that measures all these ranges.

{Use 2}[spa/hot tub}

**[SPA/HOT-TUB TREATMENT:** Apply 0.6 oz. of product per 500 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 0.6 oz. of product per 500 gallons of water over the surface to maintain a chlorine concentration of 5 ppm. Do not enter spa until chlorine residual is 1-5 ppm. After each use, shock treat with 1.8 oz. of this product per 500 gallons of water to control odor and algae. During extended periods of disuse, add 1.8 oz. of product daily per 500 gallons of water to maintain a 3 ppm chlorine concentration.]

[Water Balance: For best product performance, comfort and crystal clear water, use [brand] spa care products to maintain the following water balance:

	Acceptable Range for Balance
pH	7.2-7.6
Total Alkalinity	60-120 ppm
Calcium Hardness	Above 200 ppm
Available Chlorine	1-4 ppm

Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the pool. Use a reliable test kit that measures all these ranges. Do not enter spa until chlorine residual is 1-5 ppm.

{Use 3}[Industrial]

**[SEWAGE & WASTEWATER EFFLUENT TREATMENT:** The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or Fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction. On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent. The following are critical factors affecting wastewater disinfection.

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1. Mixing: It is imperative that the product and the waste water be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the waste water. 2. Contacting: Upon flash mixing, the flow through the system must be maintained. 3. Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.]

**[EFFLUENT SLIME CONTROL:** Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 2.5 to 25 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 0.38 oz. of this product with 100 gallons of water.]

**STORAGE & DISPOSAL:** {Optional statements – usage depends on whether or not refillable or nonrefillable containers are used and whether or not product is packaged for household/residential use only}

{Nonrefillable container - household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING.]

{Nonrefillable container – single-use, non-resealable package}

[Keep this product dry in its tightly closed container. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse and discard empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING.]

{Refillable container – household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING. Refillable container. Refill this container with calcium hypochlorite only. Do not use this container for any other purpose. Rinse empty container thoroughly with water to dissolve all material prior to disposal.]

{Nonrefillable container - non-household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING. Nonrefillable container. Do not reuse this container. Offer for recycling if available. Rinse empty container thoroughly with water to dissolve all material prior to disposal.]

{Refillable container – non-household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING. Refillable container. Refill this container with calcium hypochlorite only. Do not use this container for any other purpose. Cleaning of this container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Rinse empty container thoroughly with water to dissolve all material prior to disposal.]

{back or side panels}

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Highly corrosive. Causes skin burns and irreversible eye damage. May be fatal if swallowed Harmful if absorbed through skin. Irritating to nose and throat.

- Open in a well ventilated area. Avoid breathing dust and fumes.
- Do not get in eyes, on skin, or on clothing. Do not handle with bare hands. Wear goggles and use rubber gloves. For additional protection of skin, wear long sleeves and long pants.
- Wash thoroughly with soap and water after handling.
- Remove and wash contaminated clothing before reuse.
- Use only utensils which are thoroughly clean and dry.

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**PHYSICAL and CHEMICAL HAZARDS:**

**DANGER.** If product is exposed to small amounts of water, it can react violently to produce heat and toxic gas and spatter. Do not add water to this product. Add only into water.

- Do not mix this product with a small amount of water. Only add this product directly to your pool or spa.
- Do not allow to become wet or damp before use.

Can react with other materials, including other water treatment products, to cause fire, explosion, and the release of toxic gases.

- Keep all foreign matter, including other water treatment products, away from this product.
- [Do not use this product in a floater or feeder that has been used with any other product.]
- Do not allow this product to contact other water treatment products. If used with a skimmer, make sure skimmer is completely clean and free of residue from other water treatment products before putting this product in a skimmer.

Exposure to heat can cause this product to rapidly decompose, leading to fire, explosion, and the release of toxic gases.

- Store in a cool, dry, well ventilated area away from heat or open flame.

**Strong oxidizing agent.** This product can increase fire intensity.

- Keep away from heat and from flame and burning material (like a lighted cigarette).

**ENVIRONMENTAL HAZARD:** This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, 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.

**EMERGENCY HANDLING:** In case of contamination or decomposition: Do not reseal container. Place the container in an open and well ventilated area by itself (if possible). Flood with large amounts of water until the material is dissolved. Dispose of container and any remaining contaminated material in an approved landfill area.

**[brand] HELPLINE**

Toll-Free -800-HTH-POOL (800-484-7665) (866-4POOLFUN)  
Call 7 days a week with your questions concerning pool water care.  
8:00 a.m. - 10:00 p.m. Eastern Time

[Please visit [brand] : [www.xxx.com](http://www.xxx.com)]

{Optional}  
[



]

{Optional}

[



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