

1258-1237

12/20/2001

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 20 2001

Jimmie Floyd, Jr.  
Arch Chemicals, Inc.  
501 Merritt 7  
Norwalk, CT 06856

Subject: HTH Pool Shock  
EPA Registration No. 1258-1237  
Application Date: 9/25/01

Dear Mr. Floyd:

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

- *Update First Aid Statement*
- *To add an claim to Control Algae*
- *To add Spa/Hot Tub use*
- *To change the chlorine residual to 1 - 4 ppm*
- *To add precautionary statement under the signal word "Danger"*
- *To modify the method of application and routine chlorination instructions*

**Conditions**

*Revise the label as follows:*

1. *The percentage active ingredient in this product is lower than the generic 65% Calcium Hypochlorite, therefore the dosage rates for Spa/Hot Treatment need to be adjusted accordingly, the application rate should be 0.7 oz. and the shock treatment and extended period of disuse should be raised to 2 oz.*

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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2. The "Winterizing" directions for use must be adjusted based on 10 ppm of free available chlorine not the 15 ppm on the label. The amount of product to be added to achieve the 10 ppm fac is 27 oz. Readjust the 45 oz. of this product per 10,000 gallons of water must be change to the 27 oz.

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

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

*Sincerely,*



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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
DEC 20 2001

HTH POOL SHOCK  
SHOCK TREATMENT & SUPERCHLORINATOR  
FOR SWIMMING POOLS

KEEP OUT OF REACH OF CHILDREN (12 Pt. Type Min.)

**DANGER** (16 Pt. Type Min.)

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

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CONTAMINATION OR IMPROPER USE MAY CAUSE FIRE OR EXPLOSION. DO  
NOT MIX WITH OTHER CHEMICALS, INCLUDING OTHER HTH SHOCK,  
CHLORINATOR OR STABILIZED CHLORINATOR (PACE) PRODUCTS.  
ADD ONLY INTO WATER.

SEE PRECAUTIONARY STATEMENTS ON BACK LABEL

**ACTIVE INGREDIENT:**

CALCIUM HYPOCHLORITE.....47.6%

**OTHER INGREDIENTS**.....52.4%

**TOTAL**.....100%

Minimum Available Chlorine...45 %

EPA Reg. # 1258-1237

EPA Est. # 1258-TN-1

**FIRST AID:**

**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 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 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.

**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.

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

Arch Chemicals Inc.  
501 MERRITT 7  
NORWALK, CT. 06856

Net Wt. 1 Lb. (0.45 KG); Net Wt. 5 Lb. (2.27 KG); Net Wt. 15 Lb. (6.8 KG); Net Wt. 23 Lb. (10.4 KG); Net Wt. 55 Lb. (25 KG); Net Wt. 75 Lb. (34.1 KG)

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.

**READ ALL PRECAUTIONARY STATEMENTS BEFORE USE.**

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.

**METHOD OF APPLICATION:**

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.

**ROUTINE CHLORINATION:** Throughout the pool season, adjust pH to 7.2 - 7.6 and add 8 to 11 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 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. 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 - 7.6 with HTH pH Plus or HTH pH Minus. Follow label directions. Add 1 lb. (16 oz.) of this product per 10,000 gallons of water weekly to help prevent pool problems.

An additional shock treatment { 1 lb. (16 oz.) per 10,000 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 to 4 ppm.

Shock treat your pool when opening, then weekly to prevent pool problems.

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**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 45 oz. of this product per 10,000 gallons of pool water (to provide a dosage of 15 ppm free available chlorine). Follow "Method of Application". Run the filter until completely dissolved. Cover the pool with a plastic 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 Pool Care products to make adjustments. Follow label directions for each product.

#### **SPA/HOT-TUB TREATMENT**

Apply 0.5 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 0.5 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 1.5 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 1.5 oz. of product daily per 500 gallons of water to maintain a 3 ppm chlorine concentration.

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## 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 waste water 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 waste water disinfection.

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 to 20 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 0.3 oz. of this product with 100 gallons of water.

## STORAGE & DISPOSAL

- 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 reuse empty container.
- Place in trash collection.
- Do not contaminate food or feed by storage or disposal or cleaning of equipment.
- **DISPOSAL FOR A CONTAMINATED OR DECOMPOSING PRODUCT:**
- **DO NOT** reseal container if the product:
  - gives off heat
  - gives off hazardous gases
  - bubbles
- Isolate it (if possible).
- Next, flood decomposing product with large amounts of water to dissolve this product.
- Then, throw away the container and any contaminated material in an approved landfill area.

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**PRECAUTIONARY STATEMENTS:****HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Corrosive.**

- Causes irreversible eye damage or skin burns.
- Harmful if swallowed or absorbed through skin.
- Do not get in eyes, on skin or on clothing.
- Wear goggles or face shield
- Wear protective clothing and rubber gloves.
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing and wash clothing before reuse.

**CHEMICAL HAZARDS: DANGER.** Strong oxidizing agent.

Add only into water. Contamination may start a chemical reaction. This reaction can give off heat, hazardous gases and may cause a fire or explosion. DO NOT touch this chemical with a flame or burning material, (like a lighted cigarette).

Keep all of these away from this product: moisture, garbage, dirt, chemicals including other pool chemicals, pool chlorinating compounds, household products, cyanuric acid pool stabilizers, soap products, paint products, solvents, acids, vinegar, beverages, oils, pine oil, dirty rags, or any other foreign matter.

**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:

1. Do not reseal container.
2. Place the container in an open and well ventilated area by itself (if possible).
3. Flood with large amounts of water until the material is dissolved.
4. Place contaminated material in an approved landfill area.

**ARCH HELPLINE**

Toll-Free -800-222-2348

Call 7 days a week with your questions conning pool water care.

8:00 a.m. - 10:00 p.m. Eastern Time

Visit Waterworks <http://archwaterworks.com>

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