

SEP 16 2003

Donna L. Butler  
PPG Industries, Inc.  
One PPG Place - 8 North  
Pittsburgh, PA. 15272

SUBJECT: June 13, 2003 Amendment Application  
PPG Chlorinating Pellets  
EPA Registration 748-297

Dear Ms. Butler:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following conditions:

Your First Aid statement must be rewritten in the following order: Eyes, Skin, Swallowed, Inhaled. The first two lines after the First Aid heading pertaining to emergency phone assistance must be removed from the beginning and placed at the end.

Delete the word Interim from National Primary Drinking Water Regulations on page 3

Make Heading for Public Wells bold under Directions For Use on page 3.

Fix typos on page 4 and page 5.

A copy of your conditionally approved stamped label is enclosed. You must submit a finished clean copy to this Office for our files. If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.

Sincerely yours,

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

CONCURRENCES

SYMBOL	Enclosure.....						
SURNAME	.....						
DATE	.....						

2 8 6

# PPG CHLORINATING PELLETS

Calcium Hypochlorite Mixture - Pellet Form

EPA Reg. No. 748-297  
EPA Est. No. 748-WV-1

ACTIVE INGREDIENT: Calcium Hypochlorite . . . 73%  
OTHER INGREDIENTS: . . . . . 27%  
Minimum 70% Available Chlorine

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**Do not mix with other chemicals.  
Do not add water to product – Add product to water  
See additional precautionary statements on back label.**

**FIRST AID:** Contact 1-304-843-1300 or your poison control center for 24-hour emergency medical treatment information. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **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 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 inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. **If swallowed**, call poison 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person. **Note to physician**, probable mucosal damage may contraindicate the use of gastric lavage.

Eyes  
Skin  
swallowed  
Inhaled

Move to bottom

Manufactured by  
**PPG INDUSTRIES, INC.**  
One PPG Place  
Pittsburgh, PA 15272  
Emergency Telephone Number: 1-304-843-1300

Pellet Weight 1 gram  
Net Weight 25 lbs. (11.3 kg)

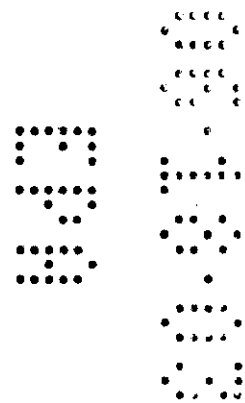
06/13/03 pending EPA update

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 16 2003

General Insecticide,  
Rodenticide Act as  
pesticide,  
EPA Reg. No.

748-297



**PRECAUTIONARY STATEMENTS -  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS -**

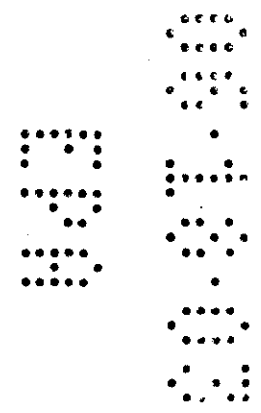
**DANGER** - Highly Corrosive. Causes irreversible eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and shoes before reuse. May be Fatal if swallowed. Irritating to Nose and Throat. Avoid breathing dust.

**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 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. **Never add water to product. Always add product to large quantities of water.** Use only a clean, dry utensil made of metal or plastic each time product is taken from the container. Do not mix with any other chemicals. **Do not add this product to any dispensing device containing remnants of any other product. Such use may cause violent reaction leading to fire or explosion.** Contamination with moisture, acids, organic matter, other chemicals or easily combustible materials such as petroleum or paint products may start a chemical reaction with generation of heat, liberation of hazardous gases and possible generation of a fire or explosion. In case of contamination or decomposition, do not reseal container. If possible isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary.

**STORAGE AND DISPOSAL:** Keep in original container in a cool, dry, well-ventilated place. Keep container closed when not in use. Keep away from heat sources, sparks, open flames and lighted tobacco products. **Container Disposal** - Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. **Pesticide Disposal** - Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food, or feed by storage or disposal. **In Case of Fire** - Drench with water. Calcium hypochlorite supplies oxygen; therefore, attempts to smother fire with a wet blanket, carbon dioxide, or a dry chemical extinguisher are ineffective. **In Case of Spill or Leak** - Use extreme caution. Contamination may cause fire or violent reaction. If fire or reaction occurs in area of spill, douse with plenty of water. Otherwise sweep up spilled material, using a clean, dry shovel and broom and dissolve spilled material in water. Then immediately use solution as directed.

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SEP 16 2003  
Federal Insecticide,  
and Rodenticide Act as  
for the pesticide,  
under EPA Reg. No.  
748-297



**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

These pellets are to be used in pellet dispenser for automatically treating well water in those areas where treated water supplies are not available.

This product is intended to be used for treating water by placing the pellets at the base of a well to sanitize until consumed. It is not intended to replace safe and properly constructed wells. EPA recommends for human consumption .2-.8 ppm to be determined by using a test kit provided with the pellet dispenser. One pellet normally treats 29 gallons of average well water. these pellets are designed to dissolve in less than 1 hour. Consult the manufacturer's installation and adjustments so that the required chlorine residual can be maintained at all times.

Make bold

**Public Wells** - Before using, flush the casing with a 50 ppm available chlorine solution [1 ounce (35 pellets) of calcium hypochlorite for each 100 gallons of water]. The solution should be fed by gravity into the well and thoroughly mixed and agitated. The well should stand overnight or for twelve hours under chlorination. It may then be pumped until bacterial examination of a representative raw water sample will indicate whether further treatment is necessary.

After the initial treatment, begin feeding a 1% available chlorine solution of this product with a hypochlorinator, as directed above, 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 the 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.

delete

**SEWAGE AND WASTEWATER TREATMENT:**

**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 ounces 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 ounces of this product with 100 gallons of water.

**Filter Beds - Slime Control:** Remove the filter from service, drain it to a depth of 1 foot above the filter sand, and add 16 ounces of this product per 20 square feet evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing the filter.

**DISINFECTION OF DRINKING WATER (Potable Water) - PUBLIC WATER SYSTEMS:**

**Public Systems:** Mix a ratio of 1 ounce of this product to 6000 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.

**Reservoirs - Algae control:** Hypochlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

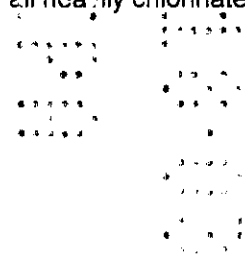
**Mains:** Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

ACCEPTED  
WITH COMMENTS  
In EPA Letter Dated:

SEP 16 2003

Federal Insecticide,  
Fungicide and Rodenticide Act as  
required for the pesticide,  
EPA Reg. No.

748-297



**New Tanks, Basins, etc.:** Remove all physical soil from surfaces. Place 4 ounces of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

**New Filter Sand:** Apply 16 ounces of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

**New Wells:** Flush the casing with a 50 ppm available chlorine solution of water containing 1 ounce of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

**Existing Equipment:** Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 4 ounces of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 1 ounce of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

**DISINFECTION OF DRINKING WATER (Potable Water) – 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 ounce of this product into 40 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeve 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.

**Drilled, Driven & Bored Wells:** Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 ounce of this product into 40 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, 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. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

**Flowing Artesian Wells:** Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

**DISINFECTION OF DRINKING WATER (Potable Water) – EMERGENCY DISINFECTION:**

When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 1 grain of this product to 1 gallon of water. One grain is approximately the size of the letter "O" in this sentence. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times.

**Emergency Disinfection After Floods**

**Wells:** Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 1 ounce of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Aggitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

**Reservoirs:** In case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as

AGGREGATE COMMENTS  
in EPA Letter Dated:

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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, and Executive Order,  
13673, 66 Fed. Reg. 48657, Reg. No.

748-297

typo

determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

**Basins, tanks, flumes, etc.:** Thoroughly clean all equipment, then apply 4 ounces of product per 5 cubic feet of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours, drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 1 ounce of this product for each 5 gallons of water (1000 ppm available chlorine). Allow water to stand for 2 to 4 hours, then flush and return to service.

**Filters:** When the sand filter needs replacement, apply 16 ounces of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 16 ounces per 20 square feet. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 16 ounces of this product per each 50 square feet, allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours, drain and proceed with normal backwashing.

**Distribution system:** Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after a 24-hour retention time. Use a chlorine test kit.

**Emergency Disinfection After Fires**

**Cross connections or emergency connections:** Hypochlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

**Emergency Disinfection After Droughts**

**Supplementary water supplies:** Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20-minute contact time. Use a chlorine test kit.

**Water shipped in by tanks, tank cars, trucks, etc.:** Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 1 ounce of this product for each 5 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

**Emergency Disinfection After Main Breaks**

**Mains:** Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low-pressure end of the new main section after a 24-hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

ACCEPTED  
with COMMENTS  
Date: SEP 16 2003

Federal Insecticide,  
Fungicide and Rodenticide Act as  
Insecticide,  
EPA Reg. No.  
748-297 5

