

PITTCLOR[®]

PITTCLOR[®] is a chlorinating chemical containing 65% available chlorine. Chemically, it is known as calcium hypochlorite. Physically, it is a granular solid. Pittclor is a product of the Chemical Division of PPG Industries, Inc.

Pittclor is chiefly used as a water treating chemical. Like many chemicals beneficial to mankind, Pittclor requires a reasonable measure of care in handling, storing, and using. The purpose of this booklet is to explain the proper methods of exercising this care. A thorough reading is recommended. On the reverse side of this sheet is a wall chart outlining a simplified guide to handling Pittclor. We suggest you post it in any area where Pittclor is handled and require anyone who handles the product to read it.

open for convenient wall chart

Things to remember about PITTCLOR

1. Pittclor can be corrosive to the eyes, skin, and respiratory system. Follow precautions stated in this booklet.
2. Pittclor does much of its useful work by oxidation. However, being a strong oxidizing agent it can cause fires when overheated or brought in contact with combustible materials such as clothing, paper, paint, rags, petroleum products, trash, garbage, soap products, etc.
3. Dampness and heat are the enemies of Pittclor in storage. Either or both

will initiate decomposition and accelerate corrosion of the container.

4. In case of fire, drench with water. Smothering fire with wet blanket, carbon dioxide or a dry chemical extinguisher is ineffective because calcium hypochlorite supplies oxygen.
5. Pittclor is toxic to fish. Treated or contaminated effluent should not be discharged where it will drain into lakes, streams, ponds or public water.
6. Apply Pittclor only as specified on label.

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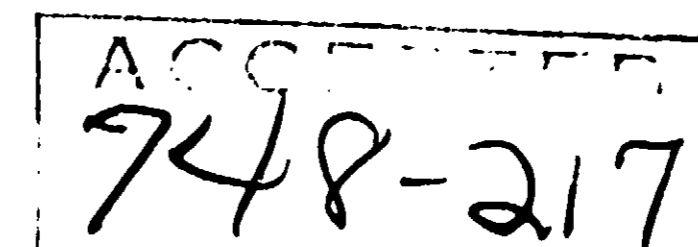
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Guide for handling and storing PITTCLOR

1. Each shipment should be examined for broken or damp packages. If any are found, they should be handled with particular care. Isolate such packages until disposition is decided. A claim should be filed with the carrier, and the supplier should be notified immediately.
2. Do not skid, drop or roll drums.
3. Pittclor containers should not be reused for packaging other materials because of the hazards involved in mixing a strong oxidizing material with other chemicals. This could result in rapid decomposition and create a serious fire or explosion. Empty containers should be washed thoroughly and disposed of in a safe place.

continued under flap



PITTCLOR

Calcium Hypochlorite 65% Available Chlorine

**FOR WATER SANITIZATION
SEWAGE TREATMENT**



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PITTCLOR[®] is a granular water treating agent and general sanitizer widely used by cities and towns throughout the nation. It is produced by the Chemical Division of PPG Industries, Inc. Pittclor[®] is calcium hypochlorite in free-flowing granular form. It contains 65% available chlorine, and provides sanitation through chlorinating action.

Municipalities, institutions, industries and other groups utilize Pittclor to meet many sanitizing needs. *Here are some of the reasons:*

☛ PITTCLOR[®] means efficient chlorination.

It reliably destroys chlorine-susceptible bacteria, algae, and other microorganisms, and is used to treat water supplies and sewage, chlorinate swimming pool water and as a general sanitizer.

☛ PITTCLOR[®] means convenient chlorination.

It is easy to use, and may be added to water manually, or with automatic feeding devices. Pittclor's inherent stability means that it can be easily stored. Many cities keep a supply on hand just for emergency purposes.

☛ PITTCLOR[®] means economical chlorination.

It does the job without waste and without elaborate equipment. When stored in sealed containers for a reasonable length of time, there is no appreciable chlorine loss. Leading distributors sell Pittclor at prices and in quantities which make it economical for the small user.

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PITTCLOR'S many uses

PITTCLOR serves municipalities and commercial users in many ways. Probably its most important task is water sanitization. Although large cities generally use continuously-fed gaseous chlorine to treat their water, small communities often use Pittclor. This is especially true where water consumption is not sufficient to justify the cost of the equipment needed for continuous chlorine feeding, or where chlorine demand is so low that less than three pounds of chlorine per day are required.

Surface water supplies, such as reservoirs, are often treated with Pittclor to kill many bacteria and algae. Algae problems in water works and filters are frequently solved with Pittclor.

Pittclor is an excellent emergency water-treating agent. It is always ready for immediate service. When regular water supplies are disrupted by flood, fire, drought, or other uncontrollable causes, Pittclor can provide quick chlorination of new or supplementary water sources.



Water wells may be initially sanitized with Pittclor, and their water can receive continuous treatment with it. All new water mains should be sanitized with intensive treatments of Pittclor, as should all new equipment used in the processing and distribution of drinking water.

With growing emphasis on clean rivers and streams, Pittclor finds increasing use as a sewage treatment chemical. It is employed to reduce biological oxygen demand, to control odors, to treat effluent, and to aid coagulation.

For municipal and institutional swimming pools, Pittclor is an efficient and accepted means of chlorination.

How PITTCLOR works

Chlorination is the recognized method of treating water supplies. Whether achieved by continuous feeding of gaseous chlorine or by addition of Pittclor, the chlorinating, sanitizing action is the same. Both gaseous chlorine and Pittclor form hypochlorous acid (HOCl) when introduced into water. Hypochlorous acid is generally believed to kill microorganisms by penetrating their cell walls and attacking the vital, living parts.

It is the concentration of hypochlorous acid in the water—expressed as “percent available chlorine”—that determines germicidal strength.

“Chlorine demand” is the amount of chlorine required to destroy bacteria and other organic

matter in the water. Available chlorine remaining after the chlorine demand has been filled is known as "residual chlorine." This remaining chlorine aids in the protection against new contamination. The amount of "residual chlorine" is usually expressed in "parts per million (ppm) of free, available chlorine."

Regular, accurate testing of water supplies for adequate residual chlorine is extremely important. It should be carried out on a systematic basis because it is the only way to determine the chlorine residual and, therefore, the acceptability of the water.

How to use PITTCLOR in water systems

All water intended for human consumption should be chlorinated. Turbid water should be clarified before it is chlorinated. It is important to remember that any water supply can be contaminated by seepage or carelessness.



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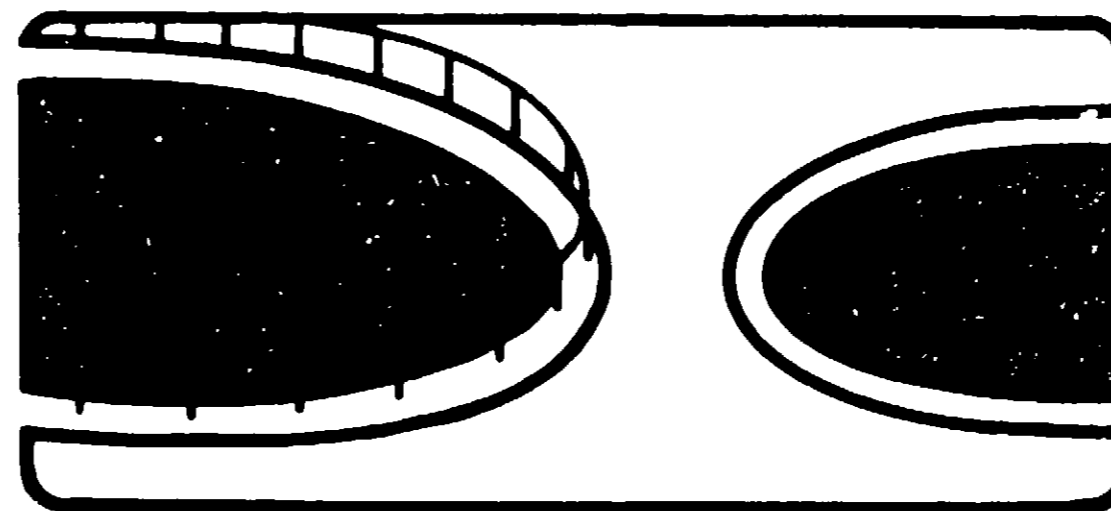
Although large water systems usually use gaseous chlorine, many smaller systems use Pittclor. Pittclor can be used at any stage in the water purification process.

Large water systems using gaseous chlorine for continuous feeding often stock Pittclor for special purposes such as killing sudden algae growths, treatment of mains, conditioning of filters, and for emergency chlorination.

RESERVOIRS

Contamination of reservoirs is an always present possibility. Careless people and undetected seepage from ground contamination are frequent causes. To keep reservoir water bacteriologically acceptable, it is necessary to chlorinate sufficiently to provide a residual of 0.2 ppm free available chlorine. This would be equivalent to 1.2 oz. Pittclor per 30,000 gallons of water after the chlorine demand has been satisfied.

Continuous feeding of Pittclor at the input



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source is usually the most effective means of maintaining an adequate chlorine residual. If continuous treatment is not practical, intermittent broadcasting of Pittclor over the surface of the water is recommended. Take care to reach all parts of the reservoir.

Test regularly, taking samples daily from areas a good distance from the water inlet, if possible. If samples must be taken near the inlet, let them stand for at least 20 minutes before testing. Chlorine demand will be higher during periods of dryness, heat, and heavy rainfall.

When algae becomes a problem in a reservoir, special action is necessary. Rapid algae growth is an indication of increased chlorine demand. There are several methods of treatment.

Continuous chlorination is generally effective in killing algae when sufficient chlorine or Pittclor is fed to produce a chlorine residual of 0.2 to 0.5 ppm free available chlorine. When continuous feeding is not possible, intermittent feeding can be practiced. Broadcast Pittclor across the surface of the water. It dissolves as it sinks to the bottom, carrying its chlorinating action to all depths. Add sufficient Pittclor to produce a residual of 0.2 to 1.5 ppm for up to 24 hours. Take special care to introduce Pittclor to shallows and edges.

Where fish are present, special precautions must be observed.

Treatment of algae can result in oxygen loss from decomposition of dead algae. This loss can cause fish suffocation. Therefore, to minimize this hazard, treat 1/3 to 1/2 of the water area in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas.

New reservoirs and newly cleaned reservoirs should be disinfected with Pittclor. Spray all parts with a 0.5% solution (5,000 ppm) or 1 oz. Pittclor to 1 gallon of water. As a safety precaution, do not store a Pittclor solution. Always use immediately the Pittclor solution that is prepared. After the reservoir is filled, chlorinate as described above.

MAINS

New water mains, as well as old mains that have been repaired, should be treated before being placed into service because contamination is always present in construction conditions. There are several techniques:

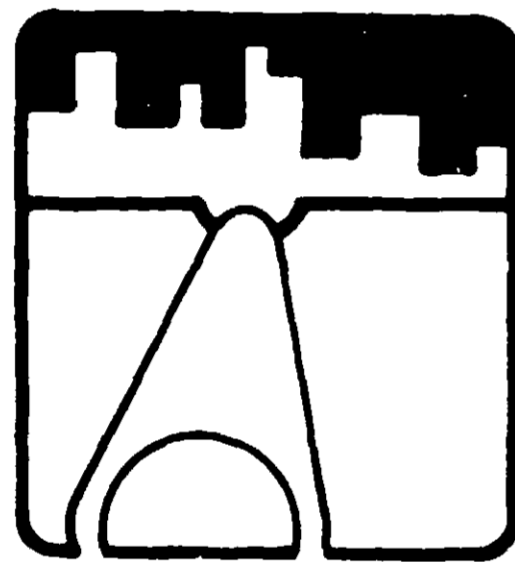
One is to flush the main, then inject a 1% available chlorine solution. Run water through the main, continuously feeding the Pittclor solution, until a 50 ppm available chlorine reading is obtained at the far end. Let stand 24 hours, then flush. Refer to page 18 for the preparation of the 1% available chlorine solution.

When constructing new mains, take care to

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keep out trench water and other contaminants. Ends of pipes should be capped when being lowered into place.

Two days after initial treatment, water in the system should be tested again for bacteria and chemicals. If results of the test are not satisfactory, maintain a 0.4 ppm free chlorine residual in the pipe until test samples for two successive days are acceptable.



WELLS

Contamination of well water is always possible. This is true even of deep wells. The general rule that all water intended for human consumption should be chlorinated holds true for well water. Municipal authorities frequently take an active interest in helping residents of surrounding rural areas, particularly dairy farmers, to safeguard their water supplies. This serves the municipality, because disease originating in outlying areas can easily spread into the community.

The best method of chlorinating well water with Pittclor is to feed it into the intake line of the pump. Automatic hypochlorination equipment for this purpose is available and easy to use. This helps keep the filter free of slime. If this location is not possible, feed Pittclor anywhere in the pump discharge line. A free chlorine residual of 0.2 ppm should be maintained after a contact time of 20 minutes. Regular testing is necessary, and a record of tests and readings should be kept.

New wells must be treated. Add enough Pittclor to the well to provide a 50 ppm available chlorine reading. When testing is not possible, a treatment of 1 ounce of Pittclor for each 100 gallons of water is suggested. After allowing the water to stand in the system 24 hours, run all outlets until the chlorine taste is negligible. The practice of regular chlorination to maintain a 0.2 ppm residual of free chlorine as directed above should then be followed.

TREATMENT PLANTS

When water is chlorinated in a treatment plant, Pittclor may be used when the plant is too small to require gas chlorine equipment. Or Pittclor treatment in the purification plant may supplement well or reservoir chlorination.

Another major use of Pittclor in treatment plants of all sizes is algae control. Algae are the source of many objectionable tastes and odors

in water. They can cause mud balls and slime in filters, pipes, and pumps. Iron bacteria and slime reduce pipeline capacity. Algae contribute to black or red water in dead-end pipelines. Pittclor is effective in fighting these problems.

The presence of algae is often first indicated by slimy, gelatinous film on the insides of pumps, lines, mixers, etc. To eliminate it, chlorinate with Pittclor in the forebay or pump well with sufficient quantities to obtain a 5.0 to 10.0 ppm residual chlorine reading after 20 minutes. The dosage to arrive at this reading will vary with conditions and should be controlled by test. Hot weather may increase the need for treatment. All new or repaired equipment should be treated with Pittclor solutions.

FILTERS

Algae growth is one of many possible causes of filter difficulties. Trouble of this type is generally indicated by slime and discoloration of walls, filter cracking, mud ball, and disagreeable tastes and smells.

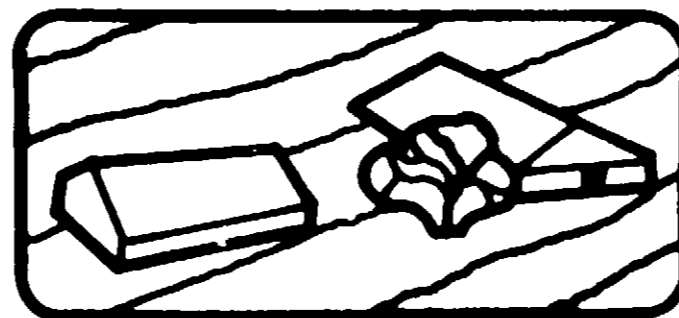
Pittclor can help combat algae problems in filters when used periodically in the following manner: Drain the filter until the water level is approximately one foot above the sand. Then sprinkle dry Pittclor in the amount of 3 to 4 pounds per 100 sq. ft. over the standing water. Let the Pittclor dissolve (about 30 minutes), then drain the water until it just reaches the

top of the sand. Let it stand 6 to 12 hours longer. Finish draining, and backwash the filters in the usual way.

EMERGENCY USES

Violent acts of nature or failure of man-made works may jeopardize a community's water supply. Flood waters may contaminate reservoirs and wells; drought may dry up water supplies; fires or power failures may interrupt the operation of pumping or purification facilities; mains may break; and unknown sources can pollute water. All of these emergencies demand prompt action by responsible authorities. Many communities keep standby supplies of Pittclor ready to meet these problems. Pittclor is well suited to such duties. It can be stored in closed containers for reasonable periods without appreciable loss of effectiveness. When needed, Pittclor flows easily, and may be applied to water with feeders, or manually. Solutions can be quickly prepared to meet many requirements.

During emergencies, Pittclor may be used to chlorinate water supplies which have been contaminated, or to purify new sources of



water quickly and dependably. It may supplement chlorine gas systems during unusually high demand. Dose raw water with sufficient Pittclor to produce a free chlorine residual of 0.2 ppm after a 20-minute contact period. When circumstances do not permit testing, add Pittclor until a faint chlorine taste remains. This will assure an adequate margin of safety.

PITTCLOR for sewage treatment

B.O.D. REDUCTION

B.O.D., or Biochemical Oxygen Demand, is the quantity of oxygen required to oxidize the polluting substance to a biochemically inert material. As little as 1 part per million of chlorine may bring about a reduction of 2 to 3 ppm in B.O.D. Pittclor for this purpose may be added at virtually any point in the system.

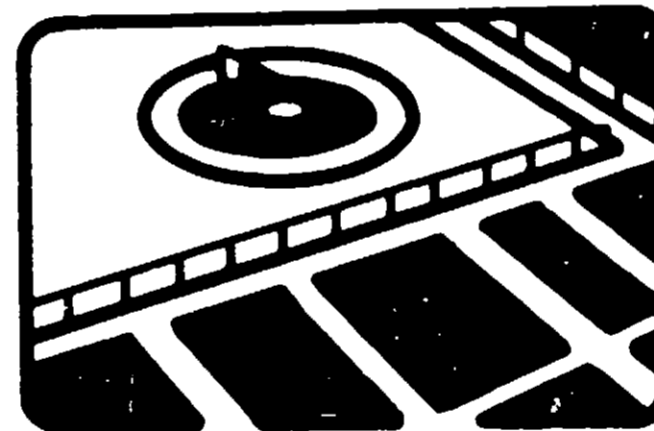
To get maximum results in terms of desirable aerobic action and retardation of anaerobic decomposition, hypochlorination should be complete. The treatment will still be of value, however, even if the amount of Pittclor applied is less than the total amount which could be utilized.

ODOR CONTROL

The most offensive of the odors encountered in sewage treatment is due to the formation of hydrogen sulfide. This is caused by the sulphate-splitting bacteria normally present in sewage.

Hydrogen sulfide can be very effectively controlled by Pittclor hypochlorination of the fresh sewage, thus destroying the sulfide-producing bacteria. If treatment of fresh sewage is not practicable, Pittclor may be added at any point where the odors have become objectionable. The amount required will, however, be increased, as the available chlorine in Pittclor will react not only with the hydrogen sulfide but also with bacteria and organic material.

For a sulfide reduction of 1 ppm, from 8 to 10 ppm of available chlorine probably will be required.



DISINFECTION OF EFFLUENT

With Pittclor, an effluent can be obtained that is free from dangerous bacteria. Every effort is made to locate modern plants where the effluent will not reach places where it may be harmful. Nevertheless, in many communities the possibility exists that the effluent may enter into bathing beaches, etc. To be on the safe side, Pittclor treatment should be used to destroy these bacteria.

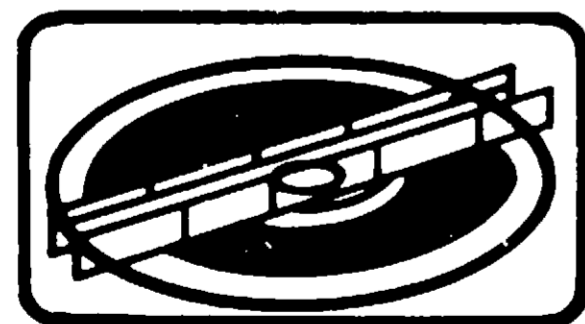
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The amount of Pittclor that may be required depends on the type of sewage. Raw sewage may require as much as 30 ppm of available chlorine, while secondary treated sewage may need as little as 3 ppm. However, the action of the available chlorine in Pittclor is very rapid, and a test of residual chlorine made 15 minutes after treatment will provide a satisfactory check of its efficiency. With a residual chlorine of 0.5 ppm, the treatment should be adequate.

AID IN COAGULATION

The value of Pittclor's available chlorine as an aid in coagulation is due primarily to its oxidizing power—a property which is of particular value in sewage treatment because there is almost no oxygen in sewage.

Pittclor hypochlorination is particularly helpful when iron salts are used as the primary coagulant. Ferric iron, in the absence of oxygen, tends to revert to ferrous iron which is of little value as a precipitant. The hypochlorite supplies sufficient oxygen to retard or prevent this change. It should be used just before the primary coagulant in the proportion of 3 to 5 ppm.



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PITTCOLOR FOR SWIMMING POOLS

POOL WATER CHLORINATION

Pittclor provides a simple, effective chlorination treatment for swimming pool water. Its use is especially desirable for indoor pools. For best results, Pittclor solution is introduced in controlled quantities into the recirculated water. Equipment may be obtained which operates automatically.

For complete recommendations and information see PPG Chemicals booklet A-707 "Pittclor Program for Pool Protection."



POOL ACCESSORY TREATMENT

Since opportunities for the spread of infection are present at any place where bathers gather or in facilities which they share, an adequate protective program is provided with a minimum of trouble and expense through the germicidal properties of Pittclor. Pittclor solutions effectively kill Athlete's Foot fungus, or other disease germs present on swimming pool premises including: shower and locker rooms, urinals, toilets, halls, floors, walkways, diving boards,

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platforms, ladders, beaches, etc.

This product is toxic to fish. Treated pool water should not be discharged where it will drain into lakes, streams, ponds, or public waters.

How to make various quantities of 1% (10,000 ppm) PITTCLOR supply solution.

Quantity of Granular Pittclor	Amount of Lukewarm Water
7½ lbs.	60 gal.
10 ounces	5 gal.
2 ounces (or 12 teaspoons)	1 gal.
½ ounce (or 3 teaspoons)	1 quart

To prepare a Pittclor solution, use a clean, non-metallic vessel free of grease, oil or any residue. Add granular Pittclor to lukewarm water and stir for 3-5 minutes.

Prepare no more Pittclor solution than required. As a safety precaution, never store a Pittclor solution. Always use immediately the Pittclor solution that is prepared.

Keep PITTCLOR out of the reach of children. PITTCLOR may be fatal or harmful if swallowed. PITTCLOR is a strong oxidant; it may produce severe chemical burns. Do not get in eyes, on skin or on clothing. Do not use ammonia or other bowl cleaners with this product. To do so

will release hazardous gases.

First Aid:

External—In case of skin and eye contact, flush with plenty of water. If skin irritation persists, get medical attention. For eyes, get prompt medical attention.

Internal—Give milk, water, or egg whites. Call physician immediately.

Handling and Storage of PITTCLOR

Do not skid or drop PITTCLOR. Keep PITTCLOR in original container in a cool, dry place. Keep PITTCLOR container closed when not in use. Keep PITTCLOR away from heat sources, sparks, open flames and lighted tobacco products. Use only a clean, dry scoop made of metal or plastic *each time* PITTCLOR is taken from the container. Add PITTCLOR only to water. PITTCLOR may cause fire or explosion if mixed with other chemicals. Fire may result if PITTCLOR is contaminated with acids, or easily combustible material, such as oil, kerosene, gasoline, paint products, and most other organic materials. In case of fire, drench with water. PITTCLOR supplies oxygen, therefore, attempts to smother fire with a wet blanket, carbon dioxide or a dry chemical extinguisher are ineffective. Wash hands after handling PITTCLOR. Do not re-use empty PITTCLOR container. Destroy when empty.

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The objective of the PITTCOLOR program for Pool Protection is to control your water.

BALANCED WATER

Your pool contains more than water. It also contains minerals, organisms, and other substances. Some may spoil the water's appearance, some may interfere with pool care procedures. It's practically impossible to keep chemicals from water in your pool, but it is possible to balance the water.

"Balanced" pool water means water which is free of any major water conditions:

1. pH

The term "pH" refers to the acid content of a dilute solution of water. (Some people refer to "acidity" as "alkalinity.") This often calls for a confusion of terms, so PPG recommends using the term "pH" instead of "acidity" or "alkalinity." The pH scale is a logarithmic scale ranging from 1 to 14. Neutral water, neither acid or basic, is a pH of 7.0. The lower the number, the more acidic the water becomes. The higher the number, the more basic. (Remember this for later on this page.)

2. ALKALI CONTENT

This is a measure of the quantity of available materials that water molecules are capable of. Don't confuse it with pH. Water with a low pH (acidic) will have a high alkali content. Water with a high pH (basic) will have a low alkali content.

3. FREE CHLORINE RESIDUAL

This is the amount of chlorine available to combat any remaining organisms in the water.

The water in your pool is exposed to many things which can spoil the water at any level. Keep the water in your pool at the proper pH level, and you'll have a pool that's ready to enjoy all the season.



You never can tell what might end up in your pool.

TESTING (THE PITTCOLOR PROGRAM WAY)

First, you have to test for alkali content, pH, and free chlorine residual. Some test kits can test all three. Many test only pH and free chlorine. In either case, buy an additional kit to test for alkali content. Make sure the test kit you purchase tests for free chlorine residual, not combined chlorine residual. Testing is more expensive; you can get them from your pool dealer or pool chemical supplier.

TESTING FOR ALKALI CONTENT

The water you fill your pool with has probably come a long way through earthen materials including soluble alkalis. Excessive amounts of alkalis in pool water may cause cloudiness, calcium scale on pool walls, deposits in pipes, and irritation to swimmers' body tissues. When PITTCOLOR is used for chlorination, alkali should be maintained between 50 and 100 ppm.

TESTING FOR pH

After the alkali content of your pool has been lowered to 100 ppm or less, now is the time to measure for pH. The wandstick for measuring acidity or basicity. The proper pH reading for a pool sanitized by PITTCOLOR is 7.2 to 7.6. If the pH drops below 7.0, acid conditions are created that cause eye, ear, nose and throat irritation. When swimmers complain about "irritation" (stinging the eyes), the culprit is usually acidity, not chlorine.

On the other hand, a high pH may slow down the bactericidal rate and cause cloudiness in the water.

The message: keep that pH reading between 7.2 and 7.6.

TESTING FOR FREE CHLORINE RESIDUAL

Chlorine is consumed when it attacks organic materials and bacteria in the water. The amount of chlorine consumed is called "chlorine demand." A heavily used pool or one close to sources of contamination will have a high chlorine demand. When chlorine consumption is high, you know that chlorine is doing its job of keeping the pool sanitary.

When chlorine demand is high, you know that chlorine is doing its job of keeping the pool sanitary.

When chlorine demand is high, you know that chlorine is doing its job of keeping the pool sanitary.

It's easy to test and treat your pool the PPG way.



PITTCOLOR PROGRAM WAY)

test for alkalinity, test pH, and free chlorine test kits. (Test kits are available at most pool stores.) Make sure the test kits for free chlorine residual are accurate. Test kits are inexpensive, but our pool filter is a pool chemical.

ALKALI CONTENT

your pool water has probably come a rthen materials including soluble amounts of alkalis in pool water may leum scale on pool walls, deposits in to swimmers' body tissues. When for chlorination, alkali should be 50 and 100 ppm.

Content of your pool has been covered now is the time to measure for pH (assuming a normal system). The pH of a pool sanitized by PITTCOLOR is drops below 7.0 and conditions are eye, ear, nose and throat irritation. complain about "something irritating" it is usually acidic, not chlorinated. A high pH may slow down the rate cause cloudiness in the water. Keep that pH reading between 7.2 and 7.6.

FREE CHLORINE RESIDUAL

needed when it attacks organic materials water. The amount of chlorine consumption demand. A heavily used pool (free of contamination) will have a high free chlorine consumption is high, you is doing its job of keeping the pool.

It's easy to test and treat your pool the PITTCOLOR way.



When you use PITTCOLOR, you can be sure you are getting the most out of your pool. The PITTCOLOR program is a simple, easy-to-use system that allows you to test and treat your pool water. This system is considered the most accurate and reliable for testing and treating your pool water. The PITTCOLOR program is acid provided by PITTCOLOR will kill undesirable bacteria at the fast rate acceptable by health authorities.

TREATING (THE PITTCOLOR PROGRAM WAY)

Before you add any chemicals to your pool you should know how much water it contains. Here are a couple of simple formulae to determine your pool water capacity, based on its dimensions (measured in feet).

For rectangular pools:
Length X Width X Average Depth X 7.5 = Gallons
For circular pools:
Diameter X Diameter X Average Depth X 5.9 = Gallons

TREATING FOR HIGH ALKALI CONTENT

If you find the alkali content of your pool water exceeds 100 ppm, add an acid, such as muriatic acid, until the level is reduced to 50 to 100 ppm. Acidic materials must be handled with care. Read and follow the directions and precautions on the label before use.

TREATING TO BALANCE pH

When the alkali content of your pool tests below 100 ppm, it's time to test and treat pH. The ideal pH range is between 7.2 and 7.6. If the pH is below 7.2, treat the water with soda ash (sodium carbonate).

Strongly acidic (pH lower than 7.6) or acidic material, such as sodium sulfate or muriatic acid should be added to bring the pH to 7.2-7.6. Allow no one in pool while treating.

After chemical addition, recirculate the water for two to three hours, then retest. Add more chemical if necessary. But allow no one in pool while treating.

The following table is a guide to show how much soda ash or muriatic acid should be used to balance water pH. Because the treatment needs of pools are different, you may find the dosage levels in this table do not give the exact pH indicated. However, if the final pH is within the 7.2 to 7.6 range, the pH is satisfactory.

How to Balance pH Under Average Water Conditions.

Find your pH on the scale at left. Read across the chart to the column under your desired pH. Red numbers indicate the required ounces of soda ash to be added per 1,000 gallons of water in your pool. Blue numbers indicate the number of fluid ounces of 20° Baume (32%) muriatic acid to be added per 1,000 gallons of water.

Present pH	DESIRED pH				Ounces of soda ash needed for 1,000 gallons of water.
	7.0	7.5	8.0	8.5	
5.0	19	23	26	30	Ounces of soda ash needed for 1,000 gallons of water.
5.5	18	22	25	29	
6.0	15	19	22	26	
6.5	9	13	15	19	
7.0		4	6	10	
7.5	0.8		2	6	
8.0	1.1	0.3		2	
8.5	1.3	0.6	0.2		
9.0	1.8	1.0	0.7	0.5	
9.5	3.2	2.5	2.1	1.9	
10.0	5.5	4.7	4.4	4.1	

Fluid ounces of 20° Baume (32%) muriatic acid needed for 1,000 gallons of water.

EXAMPLE — Your pool has 50,000 gallons of water. Your pH is 8.0. You want to lower it to 7.5. According to the chart, add 0.3 ounces of 20° Baume (32%) muriatic acid per 1,000 gals. of water. Multiply 50 x 0.3 = 15. You need about one pint of acid.



Eye irritation may be the result of too much acid, or chloramines, not necessarily chlorine.

ESTABLISHING A FREE CHLORINE (New Pool)

A newly filled pool, or one that hasn't had care, is certain to contain unwanted other organic matter. The chlorine demand. Don't use the pool until it has been properly treated. Treat the water initially with 1 oz. of PITTCOLOR per 1,000 gallons. If after 30 minutes, your free chlorine residual, you can assume the demand is satisfied. If no residual is detected, re-treat. If a free chlorine residual shows, add 1/2 ounce of PITTCOLOR for every 1,000 gallons. If this does not raise the free chlorine residual to the 0.6 to 1.0 ppm range after 30 minutes, re-treat.

METHODS OF ADDING PITTCOLOR

If your pool is equipped with an automatic feeder, see instructions for preparing a PITTCOLOR liquid feeder on page 11. For manual treatment, PITTCOLOR is best added as a solution. To prepare, use one gallon of water to dissolve each ounce of PITTCOLOR that you need. The solution should be poured in a plastic watering can. Also, a dosing bucket means for adding the solution. Pour in the PITTCOLOR solution as you walk around the pool. As a safety precaution, never store PITTCOLOR solution. Always use immediately. The PITTCOLOR solution can be prepared. If you wish, PITTCOLOR can be broadcasted directly around the pool.

WARNING: Never mix PITTCOLOR with acid or other pool chemicals.

Once your pool's alkali content has been reduced to 50 to 100 ppm, the pH balanced, and the free chlorine residual raised to 0.6 to 1.0 ppm, your job is done, right?

Wrong. From this point on your job is to *keep* the pool water balanced, and it's easy with the PITTCLOR program.

PERIODIC TESTING

Your best check is your test kit, used on a regular basis. If your pool gets heavy use, check frequently. If the pool's alkali content, pH and free chlorine residual fluctuate rapidly, you need to test more often.

The best way to be certain that your pool water stays balanced is to test daily for alkali content and pH. Chlorine residual must be checked daily, preferably 30 to 60 minutes before you expect the pool to be used. If you have heavy traffic in the pool, check chlorine residual during the occasion.

And, of course, if your pool water begins to look discolored, cloudy, or unusual in any way, test it.

SUPPLEMENTAL PITTCLOR TREATMENT

Routine tests will indicate changes in alkali content and pH, which means you'll have to add muriatic acid or soda ash to balance the water.

The amount of chlorine consumed in your pool water depends on how much use the pool gets. The best time to add a PITTCLOR addition is at night when the pool is not in use. Add 4 ounces (8 level tablespoons) of PITTCLOR per 5,000 gal. of water. Treat your pool every 7 days, or as needed that day.

Next morning, test for chlorine residual. If it's less than the required 0.6 to 1.0 ppm, add 1.2 ounces of PITTCLOR per 10,000 gal. of water, which should restore adequate residual.



The more use your pool gets, the more the water needs treatment.

Even if the sun is out, test and check your pool water frequently.

If the residual is found, keep adding PITTCLOR until you get the required 0.6 to 1.0 ppm level. To test while swimmers are using the pool, if the residual is low, add PITTCLOR when the pool is not in use.

The following table lists the quantity of PITTCLOR that will add an equivalent of 0.6 ppm residual to a pool after the chlorine has been satisfied. PITTCLOR can also be used as a solution. Use one gallon of water for each tablespoon of PITTCLOR. As a solution, PITTCLOR solutions must never be stored in plastic. Immediately dilute all the PITTCLOR solution.

PITTCLOR needed to add equivalent free chlorine residual after chlorine has been satisfied. This dosage may be required per day to maintain the desired chlorine residual.

Gallons of Water	Ounces
5,000	0.6
10,000	1.2
15,000	1.8
20,000	2.4
25,000	3.0

ADJUSTING ALKALI AND pH AFTER PITTCLOR

PITTCLOR adjusts the alkalinity of your pool water and pH of your water. PITTCLOR will raise the pH. When you treat your pool with PITTCLOR, you should test your water frequently to determine the amount of PITTCLOR you need. If the pH is 7.6 and you want to raise it to 7.8, you will need to add 1.2 ounces of PITTCLOR.



As the pool gets larger, the more the water needs

As the pool gets larger, the more the water needs

If no residual is found, keep adding PITTCLOR until you get the required 0.6 to 1.0 ppm level. It's a good idea, too, to test while swimmers are using the pool. If the residual is low, add PITTCLOR when the pool is not in use.

The following table lists the quantity of dry PITTCLOR that will add an equivalent of 0.6 ppm free chlorine residual to a pool after the chlorine demand has been satisfied. PITTCLOR can also be added to a pool as a solution. Use one gallon of water to dissolve each tablespoon of PITTCLOR. As a safety precaution, PITTCLOR solutions must never be stored. Always use immediately all the PITTCLOR solution you prepare.

PITTCLOR needed to add equivalent of 0.6 ppm free chlorine residual after chlorine demand has been satisfied. (This dosage may be required several times per day to maintain the desired chlorine residual.)

Gallons of Water	Ounces	Dry PITTCLOR Tablespoons
5,000	0.6	1
10,000	1.2	2
15,000	1.8	3
20,000	2.4	4
25,000	3.0	5

ADJUSTING ALKALI AND pH AFTER ADDITION OF PITTCLOR

PITTCLOR additions may have an effect on the alkali content and pH of your water. PITTCLOR tends to raise the pH. When you treat your pool with PITTCLOR, we recommend that a separate quantity of acid sufficient to neutralize the equivalent alkali influence of PITTCLOR be added. It takes 2.67 fluid oz. of 20° Baume (62% acetic) acid to neutralize the equivalent alkali contained in 1 lb. of PITTCLOR.



WARNING: Never add acid directly to PITTCLOR or vice versa. The spontaneous decomposition resulting from such mixing would be extremely hazardous.

When alkali content is kept at 50 to 100 ppm, and pH properly controlled, you shouldn't encounter problems of cloudy water, scaling and deposits in pipes. There may be momentary clouding when PITTCLOR is added, but as the chemical goes to work and the water becomes balanced, cloudiness will disappear.

The key to successful use of PITTCLOR in your pool is the proper control of alkali content and pH.

PITTCLOR SOLUTION FOR LIQUID FEEDERS

A PITTCLOR solution can be prepared for liquid feeders by dissolving sufficient PITTCLOR in water to produce a 1% concentration. The 1% solution is easily made, as follows:

PITTCLOR 1% lbs.	LUKEWARM WATER 10 gals.
---------------------	----------------------------

To prepare a PITTCLOR solution, use a clean, glass-free container free of grease, oil or any residue. Measure the amount of water in the container as if it were a standard water canister. Add PITTCLOR to water. Stir until thoroughly mixed. Allow to settle until the solution is clear.

Smaller quantities of 1% solution may be prepared by dissolving 4 tablespoons of PITTCLOR per gallon of water.

Prepare no more PITTCLOR solution than is needed to fill the liquid feeder. As a safety precaution, never store a PITTCLOR solution. Always use immediately the PITTCLOR solution you prepare.

For best maintenance program, use a test kit to check your water balance.

SUPERCHLORINATION FOR ALGAE CONTROL

Pool owners start with clean pools and then run into water quality and algae problems. But they can be protected by superchlorination—a shock treatment when the pool is not in use.

Superchlorination is what the name implies: increasing the free chlorine to a range of 5.0 to 10.0 ppm. For superchlorination, add 1 to 2 lbs. of PHTHCLOR per 1,000 gal. of water at night when the pool is not in use. If your pool has a circulating pump and filter, keep it on and run PHTHCLOR addition to be sure of even distribution. Then stop the pump and allow the pool to stabilize for 12 to 18 hours. Vacuum the pool to remove all debris and then retest the water for free residual chlorine. Do not use the pool unless the free chlorine residual has dropped to 2.0 ppm or below. If you are superchlorinating, the chlorine demand is high, the free residual will probably be near zero at the end of the day. Add new water if the free residual is higher than 2.0 ppm.

Superchlorination is recommended for a weekend pool owner and other nonswimmers. More swimmers should be able to enjoy their pools, too.

SUPERCHLORINATION TO ELIMINATE CHLORAMINES

Chloramines are irritating to the eyes and throat and are responsible for the combination of "burning" and "stinging" in the nose. They are a byproduct of the reaction between chlorine and the nitrogenous compounds in sweat, urine, and feces.

Superchlorination is recommended for swimmers and nonswimmers. The best time to superchlorinate is the day after a swimmer has been in the pool. If you see the chlorine residual for a couple of days after a swimmer, follow it up with the same procedure as the day after.

POOL WATER STABILIZATION

In some areas, the pH of the water is naturally



Take it easy and enjoy your pool.

residual in pool water, even if the pool is lightly used. A major source of this problem is sunlight, which dissipates free chlorine. The best way to slow down the rate of its dissipation is to stabilize your pool water. (But don't use it to compensate for heavy chlorine consumption caused by heavy pool use or contamination by organic matter entering the pool.) You can stabilize your pool water by adding a stabilizing agent according to these directions:

1. Clean or backwash filter.
2. Test pH of pool water and adjust to 7.2 to 7.6, if necessary.
3. Superchlorinate.
4. Once superchlorination is completed, start the filtration system and add stabilizer. Follow manufacturer's instructions for use. Certain stabilizers are available in stabilizing tablets.
5. Circulate water through the filter for 6 hours after stabilizer is added.
6. Maintain free chlorine residual of 1.0 to 1.5 ppm in a regular acid-stabilized pool.
7. Maintain pH between 7.2 and 7.6.



Superchlorinate by 15 to 20 ppm of free chlorine at least once a week to prevent the growth of algae and other microorganisms.

About
your

Pool



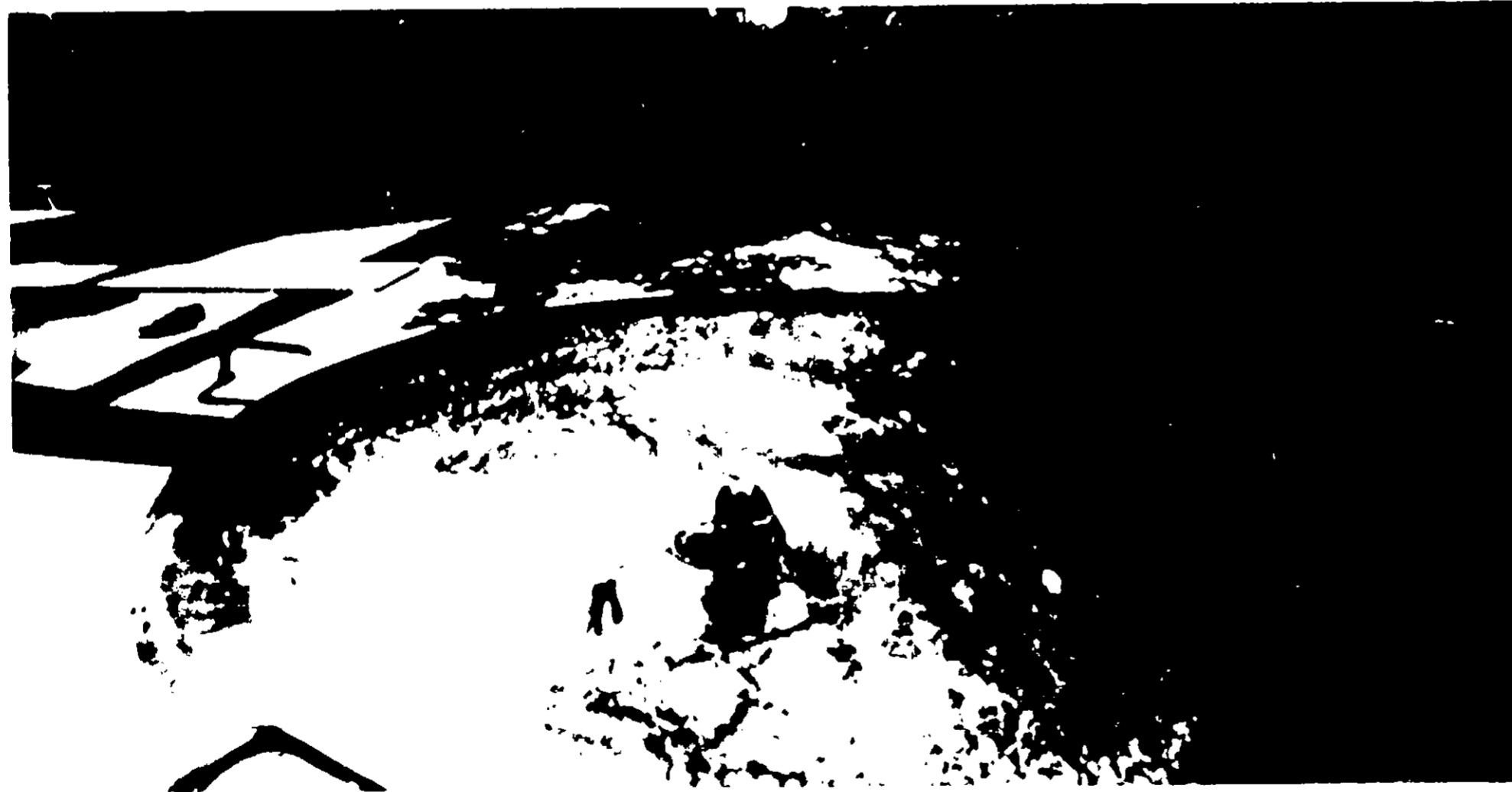
Above ground pools have less water per bather so check more frequently to make sure the water is sanitary for your family and friends.

8. Superchlorinate once a week. Follow the same directions you have noted under "Superchlorination for Algae Control."

ABOVE-GROUND POOLS

Above ground pools require more chlorination because they generally have less water per bather. Water can become saturated or polluted more quickly. Sides of above ground pools are exposed to sunlight, promoting a warmer environment in which bacteria might multiply.

A free chlorine residual of 1.5 to 2.0 is recommended. Test for free chlorine residual each day, preferably before the pool is used. If the chlorine residual is less than 1.5 ppm, add 0.3 oz. of PITTCLOR per 1,000 gal. of water.



In some areas sunlight dissipates free chlorine.

Repeat the treatment after 30 minutes if the 1.5 ppm level has not been reached. Alkalinity, hardness and pH should also be checked daily to maintain balanced water conditions.

POOL CLEANING

Periodic draining of the pool gives you the opportunity to insure cleanliness. (Consult your pool builder for a schedule.) While the pool is drained, thoroughly clean it. During the cleaning, make use of PITTCLOR's disinfecting power. Use a strong PITTCLOR solution (5,000 ppm available chlorine) (see below) to wash the pool sides, walls, and bottom. Pay particular attention to germination-bearing cracks and crevices by making sure they are wetted by the solution. Use all the PITTCLOR solution you prepare. Never store a PITTCLOR solution.

CLEANING AROUND THE POOL

Proper sanitation doesn't stop with your pool. Make sure decks, diving boards, ladders and floats are cleaned and then wetted with a 5,000 ppm PITTCLOR solution.

In public pools, it is done daily to cut down on the spread of bacteria and fungi. A 1250 ppm solution of PITTCLOR is also useful as a disinfectant on sinks and toilet facilities. Apply it as a rinse, spray, swab, or douse. All surfaces should be thoroughly wetted.

How to Make PITTCLOR Solutions of 1,250 and 5,000 ppm

Concentration Needed (ppm available chlorine)	Using Granular PITTCLOR	
	Teaspoons PITTCLOR	Gallons Water
1,250	1½	1
5,000	6¼	1

Prepare only the amount of PITTCLOR solution you need. It is highly effective and should be stored in PITTCLOR's container.

The following basic steps will help you to keep your pool water happy. However, they're not the complete pool care story, and we recommend that you read this booklet thoroughly for a full understanding of pool care methods.

INITIAL TREATMENT (NEW POOLS)

1. Check alkali content and pH. Proper ranges are: Alkali content: 50 to 100 ppm, pH: 7.2 to 7.6.
Testing 6
2. Adjust if necessary. To lower alkali content and pH, add muriatic acid. To raise pH, add soda ash.
Treating 7
3. Add 1 oz. of PITTCLOR per 1,000 gal. of water.
PITTCLOR 3
Chlorinating 5, 12
Treating 9
4. Neutralize the alkali content contained in PITTCLOR by adding 2 1/2 fluid oz. of 20 Baume (32 gamma) citric acid for every oz. of PITTCLOR added.
Adjusting Alkali Content and pH 11
5. Next, check free chlorine residual. 30 to 60 minutes before you use, if residual is less than 0.6 ppm, add 1.2 oz. of PITTCLOR per 10,000 gal. of water. Heavy rainfall, ground, or other conditions may cause hard water conditions to occur. Use your test kit, and add PITTCLOR as required.
Supplemental PITTCLOR treatment 10
6. Watch water temperature, water level, and pH.

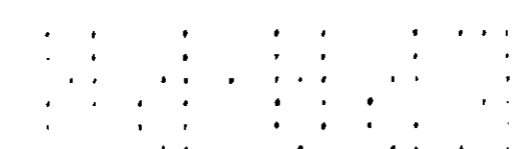
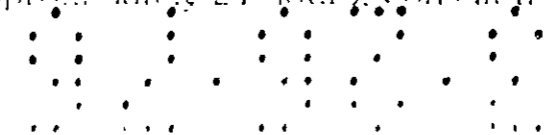
DAILY FOLLOW-UP TREATMENT

1. Test for alkali content, pH, and free chlorine residual. Before tests, 10

2. Adjust alkali content and pH, if necessary. Use muriatic acid to lower alkali content and pH. Use soda ash to raise pH.
Treating 7
3. At night, after swimmers have left the pool, add four ounces of PITTCLOR per 5,000 gal. of water. Next morning, test for free chlorine residual. Add PITTCLOR as needed to obtain a 0.6 to 1.0 ppm residual. If tests show low residual during the day, add PITTCLOR.
Supplemental PITTCLOR Treatment 10

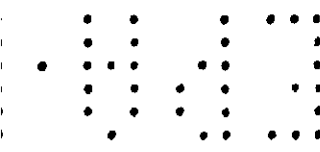
MOST COMMON WATER PROBLEMS*		
CONDITION	CAUSE	REMEDY
Algae infested water	Chlorine level too low	Superchlorinate, adjust pH, adjust alkali content. Vacuum and filter.
Green water	Heavy rainfall, algae, acid water, metallic ion from copper piping	Adjust pH, adjust alkali content, superchlorinate. Vacuum and filter.
Cloudy turbid water	Heavy rainfall, imbalance in make-up water, improper alkalinity, algae, too much aluminum sulfate (alum)	Test alkali content and adjust. Check pH. Superchlorinate, adjust pH to 7.2 to 7.6 range. Do not use alum with Diatomite filters.
Yellow or greenish yellow water	Dirt, silt, heavy rainfall	Superchlorinate, adjust pH and alkali content. Vacuum and filter.
Red or reddish brown water	Iron or other minerals	Superchlorinate, adjust alkali content and pH. Vacuum and filter.
Black water	Copper or manganese, certain strains of algae	Superchlorinate, adjust alkali content and pH. Vacuum and filter.
Brown water	Mud or minerals	Superchlorinate, adjust alkali content. Vacuum and filter.

*If recommended treatment does not clear water after approximately 24 hours, consult a local water treatment company for a complete water analysis.



REMEDY
Superchlorinate, adjust pH, adjust alkali content. Vacuum and filter.
Adjust pH, adjust alkali content, superchlorinate. Vacuum and filter.
Test alkali content and adjust. Check pH. Superchlorinate, adjust pH to 7.2 to 7.6 range. Do not use alum with Diatomite filters.
Superchlorinate, adjust pH and alkali content. Vacuum and filter.
Superchlorinate, adjust alkali content and pH. Vacuum and filter.
Superchlorinate, adjust alkali content and pH. Vacuum and filter.
Superchlorinate, adjust alkali content. Vacuum and filter.

hours, consult a local water treatment



It takes a lot less work than you might think to keep your pool water happy.

Keep PITTCLOR out of the reach of children. PITTCLOR may be fatal or harmful if swallowed. PITTCLOR is a strong oxidant, it may produce severe chemical burns. Do not get in eyes, on skin or on clothing. Do not use ammonia or other bowl cleaners with this product. To do so will release hazardous gases.

First Aid
External In case of skin and eye contact, flush with plenty of water. If skin irritation persists, get medical attention. For eyes, get prompt medical attention.
Internal Give milk, water, or egg whites. Call physician immediately.

Do not skid or drop PITTCLOR. Keep PITTCLOR in original container in a cool, dry place. Keep PITTCLOR container closed when not in use. Keep PITTCLOR away from heat sources, sparks, open flames and lighted tobacco products. Use only a clean, dry scoop made of metal or plastic each time PITTCLOR is taken from the container. Add PITTCLOR only to water. PITTCLOR may cause fire or explosion if mixed with other chemicals. Fire may result if PITTCLOR is contaminated with acids, or easily combustible material, such as oil, kerosene, gasoline, paint products, and most other organic materials. In case of fire, drench with water. PITTCLOR supplies oxygen, therefore, attempts to smother fire with a wet blanket, carbon dioxide or a dry chemical extinguisher are ineffective. Wash hands after handling PITTCLOR. Do not re-use empty PITTCLOR container. Destroy when empty.

PPG Industries packages PITTCLOR in drums, cans and plastic containers. Containers should be tightly closed after use and always stored in a cool, dry place. Read all label directions before using PITTCLOR.



Ask your pool builder or service company to get PITTCLOR.



0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9

PITTCLOR[®]

(CALCIUM HYPOCHLORITE)

Handling and Storage Procedures

KEEP OUT OF REACH OF CHILDREN.

Harmful or fatal if swallowed.

Strong oxidant. Fire may result from contact with heat, acids, organic or combustible materials.

May produce severe chemical burns. Avoid contact with skin or with eyes.

Do not use ammonia or acid cleaners with this product. To do so will release hazardous gases.

Do not mix with any other chemicals. Mix only with water.

EXTERNAL - In case of skin or eye contact, flush with plenty of water. If skin irritation persists, get medical attention. For eyes, get medical attention immediately.

INTERNAL - Give milk, water or egg whites. Call a physician immediately.

Handle container with care. Do not skid, drop or roll.

Use only *clean, dry* measuring devices and scoops.

If spilled on clothing, remove and wash the contaminated clothing immediately.

Dispose of spilled material by flushing with large amounts of water. Do not throw it into waste baskets or trash cans.

In case of fire, drench with water.

Repackaging or blending is not recommended.

Do not reuse empty containers. Rinse empty container thoroughly and dispose of in a safe place.

Wash hands after handling.

This product is toxic to fish. Treated or contaminated effluent should not be discharged where it will drain into lakes, streams, ponds or public water. Apply

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Do not reuse empty containers. Rinse empty container thoroughly and dispose of in a safe place.

Wash hands after handling.

This product is toxic to fish. Treated or contaminated effluent should not be discharged where it will drain into lakes, streams, ponds or public water. Apply this product only as specified on label.

Store all containers in well-ventilated areas away from direct sunlight.

Keep away from heat sources, open flames, and lighted tobacco products.

Containers should be kept closed when not in use.

Keep material cool and dry for maximum storage life.

Temperatures in excess of 90° F should be avoided.

Store separately from combustible materials, acids and organic material.

PPG INDUSTRIES, Inc.
Chemical Division
One Gateway Center
Pittsburgh, Pa. 15222



4. Repackaging of Pittclor is not recommended without a thorough knowledge and understanding of all possible hazards. Pittclor should never be mixed with any other chemical. It should be mixed with water only.

5. Avoid contamination by exercising extreme caution when taking portions of the material from the package. Use only clean, dry scoops or other measuring devices. The larger the package and more frequent the entries into the package, the greater are chances of contamination. Such contamination may result in rapid decomposition and fire.

6. If dry Pittclor is spilled on dry clothing, it could catch fire, so remove and wash the contaminated clothing immediately.

7. Spilled Pittclor should be disposed of by flushing with large volumes of water.

8. Employees should understand the hazards involved in handling Pittclor and know the proper safety precautions to protect

themselves and others. They should be acquainted with the purpose, use, and maintenance of proper ventilation.

Instruct employees to promptly report any defective or damp containers to the proper authority.

1. KEEP OUT OF REACH OF CHILDREN.

2. Storage areas for Pittclor should be located in dry, well-ventilated buildings. Adequate ventilation is necessary so that hot, stagnant air will not overheat the material.

3. Pittclor should be kept away from heat

sources, open flames, liquid products and out of the direct sun. Temperatures in excess will accelerate decomposition of calcium hypochlorite. When calcium hypochlorite decomposes, oxygen is liberated which may create a serious fire hazard. In addition, decomposition also liberates toxic gases which are hazardous to life and equipment. Remove a decomposing material from vicinity of other buildings.

4. Pittclor must be kept in a cool, dry place. Moisture, like heat causes decomposition of calcium hypochlorite with associated hazards stated above.

5. Pittclor containers should be tightly closed when not in use to prevent contamination and accidental spillage.

6. In order to obtain full use of the product, it should not be stored for long periods. Inventory rotation is necessary. Extended storage sometime

open for convenient wall chart

and others. They should be ac-
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OUT OF REACH OF CHILDREN.

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may create a serious fire hazard. Decom-
position also liberates toxic and corrosive
gases which are hazardous to personnel
and equipment. Remove and isolate any
decomposing material from storage facil-
ities or other buildings.

4. Pittclor must be kept in a dry place.
Moisture, like heat causes decomposition
of calcium hypochlorite with the same
associated hazards stated above.

5. Pittclor containers should be kept tight-
ly closed when not in use to avoid contam-
ination and accidental spillage.

6. In order to obtain full usage of the pro-
duct, it should not be stored for extended
periods. Inventory rotation is imperative.
Extended storage sometimes causes cor-

rosion and deterioration of containers. For
this reason, once the container is opened,
every effort should be made to use all of
the material within 30 days. Selection of
a package size that will permit use of all the
contents within 30 days after initial open-
ing is recommended. It is also good practice
to select a package size that requires a
minimal number of openings in proportion
to the amount of material in the package.

7. Pittclor should be stored away from
other materials such as acids, organic, or
combustible substances. It reacts with any
of these to produce fire and/or hazardous
gases.

The following materials, commonly found
around swimming pools, should *not* be
stored near Pittclor: alum (aluminum sul-
phate or ammonium aluminum sulphate),
sodium bisulphate, muriatic acid, oil, grease,
gasoline, ortho tolidine, phenol red (or
other testing reagents), paints, paint re-
movers and thinners, soap products, trash
and garbage.



PITTCLOR[®] HOW TO HANDLE AND STORE

CALCIUM HYPOCHLORITE

with handy reference wall chart