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# COMMON POOL PROBLEMS & SOLUTIONS FOR BAQUACIL POOLS

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## WHAT IS BAQUACIL®?

Baquacil Sanitizer® is a chlorine-free polymeric sanitizer that is effective against a wide variety of microorganisms. Because it forms insoluble complexes with pool and contaminants, Baquacil Sanitizer® works in conjunction with the filter to physically remove impurities from the water as it sanitizes.

Because of its complex chemical structure, Baquacil® is extremely stable. Unlike the efficacy of halogen sanitizers (chlorine, bromine), the efficacy of Baquacil® is not affected by sunlight, temperature, or pH fluctuations.

The stability allows a pool to be properly maintained for longer periods before additional Baquacil Sanitizer® is required, which provides better, more consistent bacteria control and greater ease of operation.

Clear sparkling water does not take nearly as much work with Baquacil Sanitizer® as it does with chlorine or bromine. This is because the active ingredient in Baquacil Sanitizer® is much more stable than chlorine or bromine, so its effectiveness lasts longer.

You also won't have the bleaching of hair, fabrics, or vinyl liners usually associated with other sanitizers, and you're less likely to encounter skin or eye irritation.

Factors that affect the quality of pool water are pH, total alkalinity, calcium hardness, and total dissolved solids. The relationship between these factors is called "water balance." When these factors are properly adjusted, it is unlikely the water will deposit scale or corrode exposed equipment. Well-balanced water also provides maximum swimmer comfort.

The source of the water (such as treated municipal water, ground water, or well water) will impact many of these factors in different ways. Knowing the water's source will help you know what steps to take to balance the pool and keep it balanced.

Corrosion can result in pitting, etching, stripping of met-

als, and eye & skin irritations. Some symptoms of scaling are cloudy water, short filter runs, staining, and eye and skin irritation.

## HAZE — CAUSES AND TREATMENTS

Haze is insoluble particles suspended in the pool water. The more particles, the hazier the water. The smaller the particles, the more difficult it is to filter them out. If particles are too small, they may not be filterable. The haze may or may not be biological in origin. Generally, the causes of haze is one or more of the following:

- Chemical water balance - incompatible chemicals have been added.
- Mechanical - faulty or inadequate filtration.
- Biological - water mold or algae.

To treat haze due to filtration, circulation or biological problems, use a Baquacil Filter Cleaner to clean the sand in the sand filter or your D.E. or cartridge filters or one of the following:

- Broadcast floc (it's not that hard)
- Filter Aid (repeated applications will be necessary)
- Use a service D.E. filter (48-72 hrs)

## WATERMOLD - CAUSES AND TREATMENTS

Watermold is a type of biofilm. A biofilm is a colony of microorganisms that secretes an extracellular mass which protects it from biocides; and in some cases, causes the colony to adhere to a solid surface.

Signs of watermold are clear, white, gray or pink slimy deposits on the side of the pool. Growth may not be readily visible. A rapid depletion of the oxidizer is the best indicator when normal sanitizer levels are maintained.

Common causes of watermold in a pool include one or more of the following: improper housekeeping,

poor circulation, dirty filter, contaminated equipment and the environment. Solutions include: evaluation of the pool's mechanical system and housekeeping routine - adjusting if necessary, cleaning the filter with Baquacil Filter Cleaner and converting to the Baquacil CDX system. For a total system clean up you must chemically clean the filter and change the filter media if necessary, clean pool accessories and toys and treat with Baquacil CDX.

Baqua CDX is a remedial treatment program for Baquacil® pools with chronic clarity issues associated with watermold issues. The main ingredient is sodium perborate monohydrate and is used to stabilize Baquacil Oxidizer levels during the treatment process. Baquacil CDX should be used for the balance of the swimming season while closely monitoring the Baquacil Oxidizer level. Stability of Baquacil Oxidizer level over time determines when a pool can be returned to the 3 step Baquacil® system.

## ALGAE - CAUSES AND TREATMENTS

The best way to prevent algae growth in any type of pool using any type of sanitizer, is to maintain the pool properly. It is important to maintain a sanitizer level at all times. Shock the pool as recommended according to your maintenance schedule. Apply a maintenance dose of algicide every other week, (or weekly, depending on the algicide used). It is also very important to perform physical maintenance on the pool. Brushing the pool weekly will eliminate air pockets that form and promote algae growth. It also eliminates some dirt and debris which may bring algae into the pool. Automatic cleaners DO NOT perform this function. They will eliminate visible dirt, but there are still areas they miss. For best results, brush the pool surface once a week.

There is always the potential for biological problems under the right conditions. There is no magical chemical that you can add to a pool and walk away that will kill all the algae by itself.

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Common causes of algae are poor circulation and/or filtration, improper chemical maintenance, poor house-keeping and the environment.

Solutions include one or more of the following: evaluation of the pool's mechanical systems and housekeeping routine - adjusting if necessary, cleaning the filter with Baquacil Filter Cleaner, cleaning all pool accessories and toys, filter pool continuously (unless broadcast flocking) until clear, and treatment with an algicide such as Baquacil Performance Algicide or for persistent algae, use Baquacil Premium Algicide.

Baquacil Premium Algicide is an excellent choice for algae treatment with a special low foaming formula for reoccurring algae problems. It smothers green, black and mustard algae.

For visible algae - an initial dose of 11-17 ounces per 10,000 gallons of water. This should increase the Baquacil® reading by 2 to 5 points.

The second dose for visible algae should be 11 to 17 ounces per 10,000 gallons and should increase the Baquacil® reading by 7 to 8 points.

For really stubborn algae - treat with Baquacil Premium Algicide and then start the CDX regime and continue it for the rest of the swimming season.

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NOTE: Always follow label directions and manufacturer's instructions for each product used. Conditions may vary from pool to pool. Ultra Modern Pool & Patio does not assume any responsibility or liability for the results that may be obtained through utilization of this or any other program, procedure or product

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### COMMON POOL PROBLEMS AND SOLUTIONS

CAUSE	SOLUTION
<b>PROBLEM: EXCESS FOAM</b>	
<ul style="list-style-type: none"> <li>pH, total alkalinity, and/or calcium hardness not in balance</li> <li>Addition of incompatible chemicals</li> </ul>	<ul style="list-style-type: none"> <li>Add Baquacil Foam Disperser</li> <li>Test pH, total alkalinity, calcium hardness and Baquacil® levels, adjust if necessary</li> </ul>
<b>PROBLEM: EYE IRRITATION, ODOR, OR TASTE</b>	
<ul style="list-style-type: none"> <li>High pH levels</li> <li>Insufficient oxidation</li> <li>Chemical overdose</li> </ul>	<ul style="list-style-type: none"> <li>Test pH level, adjust if necessary</li> <li>Measure all chemical additions carefully</li> <li>Test Baqua Shock® level, add maintenance does if low</li> </ul>
<b>PROBLEM: FILTER BLOCKAGE</b>	
<ul style="list-style-type: none"> <li>Lack of regular filter maintenance</li> <li>Unbalanced water</li> <li>Environmental debris</li> <li>Excessive bather load</li> <li>Mechanic problems</li> </ul>	<ul style="list-style-type: none"> <li>Repair mechanical problems</li> <li>Test pH, total alkalinity and calcium hardness, adjust if necessary</li> <li>backwash, rinse, or bump filter</li> <li>Clean filter with Baquacil Filter Cleaner</li> </ul>
<b>PROBLEM: WATERLINE BUILDUP</b>	
<ul style="list-style-type: none"> <li>Buildup of body oils, impurities</li> </ul>	<ul style="list-style-type: none"> <li>Use Baquacil Surface Cleaner</li> </ul>
<b>PROBLEM: CLOUDY WATER</b>	
<ul style="list-style-type: none"> <li>pH, total alkalinity and/or calcium hardness not in balance</li> <li>Damaged or dirty filter</li> <li>Low Baquacil® residual</li> <li>Algae or water mold</li> </ul>	<ul style="list-style-type: none"> <li>Add Baquacil Flocculent</li> <li>Clean filter with Baquacil Filter Cleaner</li> <li>Test pH, total alkalinity, calcium hardness and Baquacil® levels — adjust if necessary</li> <li>Treat for algae or water mold</li> </ul>
<b>PROBLEM: COLORED WATER</b>	
<ul style="list-style-type: none"> <li>Copper or iron metals in pool due to fill water or corrosion of heater and/or other equipment.</li> <li>Total alkalinity, pH are low</li> </ul>	<ul style="list-style-type: none"> <li>Add Baquacil Metal Control</li> <li>Test pH and total alkalinity, adjust if necessary.</li> </ul>

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