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## PROPER SUPERCHLORINATION OF POOLS FOR HIGH COMBINED CHLORINE LEVELS ONLY

*For diarrheal and formed fecal incidents within pools, follow CDC's  
"Fecal Incident Response Recommendations for Pool Staff"  
guidelines*

<http://www.cdc.gov/healthywater/pdf/swimming/pools/fecal-incident-response-recommendations.pdf>

**WHY:**

To reduce the combined chlorine that forms in your pools. Combined chlorine occurs when organic matter combines with chlorine to create a chemical that can be harmful to your health.

Organic matter includes:

sweat	street soil	algae
bacteria	dead skin	mineral
urine	cosmetics	fecal matter
body oil	hair oils	hair spray

**WHEN:**

You must superchlorinate the pool when the combined chlorine exceeds 1.0 ppm. Use your chemical tests to determine this:

**Example:**

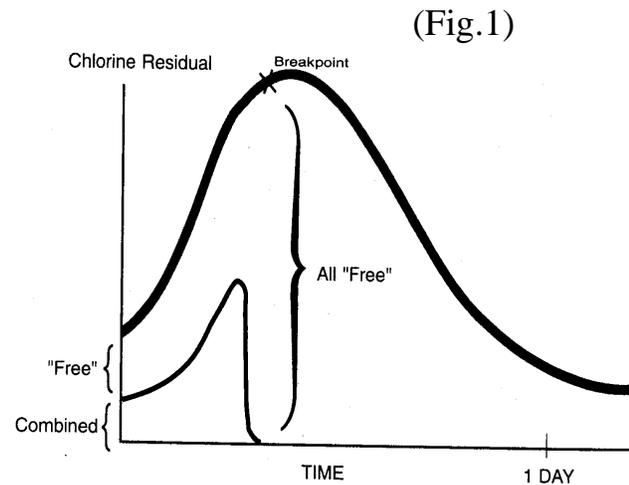
DPD #3 (Total)	2.0 ppm
DPD #1 (Free)	<u>-1.0 ppm</u>
<b>COMBINED CHLORINE =</b>	<b>1.0 ppm</b>

**HOW:**

To reduce the combined chlorine you must use breakpoint superchlorination. This can be achieved by adding 10 times more chlorine than combined chlorine.

**Example:**

1.0 ppm combined chlorine (cc) present
1.0 ppm cc x 10 = 10 ppm chlorine required



This chlorine may be added directly to the pool or through the circulation system.

### THE POOL MUST BE CLOSED DURING BREAKPOINT SUPERCHLORINATION!

**HELPFUL HINTS:**

1. To get maximum usage of your chlorine, maintain a pH at 7.5 and alkalinity at 100 ppm. These are considered ideal operating levels.
2. When adding dry chemicals to your pool, add in a solution form. Take a bucket of water, add chemical to dissolve, then add to pool.
3. For optimal effectiveness, the superchlorination process should last one full day (See Fig. 1).

**NOTE: For Spas, they must be dumped when combined chlorine readings exceed 1.0 ppm.**