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forests, controlled sources and
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HTH® Water Products,
Atlanta, GA 30328

3/2011



Pool Care Guide



Happy Swimming!

Versión en español al reverso

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At HTH Pool Care Products, we know that pool owners all want the same thing

- clean, clear water. You want sparkling water that just begs for its surface to be broken with a graceful dive or a tummy-busting belly flop. That's why we offer a complete line of pool care products that will keep your water sparkling blue throughout the entire season.

The HTH brand is recognized for superior, quality pool and spa care products.

A friendly color-coded system, easy to understand packaging and our simple 4-Step Pool Care Program make it easier than ever to use HTH Pool Care Products. Simply follow this guide for sparkling blue, crystal clear water, so you can relax and enjoy family fun in and around your pool all summer long.

Happy Swimming!



HTH 4-Step Pool Care Program



HTH® 4-Step Pool Care Program and Color-Coding Overview

HTH Pool Care Products are color-coded to make it easy for you to find the product you need and to follow our 4-Step Program to maintain sparkling blue, crystal clear water. By simply looking at the package you'll be able to see which step you are completing in the 4-Step Program.

Step 1: Test & Balance (purple)

Step 2: Sanitize (yellow and orange)

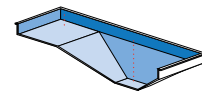
Step 3: Shock Weekly (red and blue)

Step 4: Prevent Algae (green)

Measuring Pool Capacity

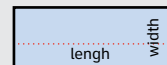
It is important to know your pool's capacity before adding any products to your pool water. If you do not know the capacity of your pool, simply use the formulas below to calculate the approximate capacity.

Calculate Average Depth in feet:



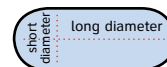
Deep end depth (ft) + Shallow end depth (ft) = _____ (ft)/2 = Average Depth (ft)

For a Rectangular or Square Pool:



Length (ft) x Width (ft) x Average Depth(ft) x 7.5 = Pool Capacity (gal)

For an Oval Pool:



Diameter (ft) x Long Diameter (ft) x Average Depth (ft) x 5.9 = Pool Capacity (gal)

For a Circular Pool:



Diameter (ft) x Diameter (ft) x Average Depth (ft) x 5.9 = Pool Capacity (gal)

For a Free Form Pool:

Surface (sq ft) x Average Depth (ft) x 7.5 = Pool Capacity (gal)



Pool Care Fundamentals

Balanced Pool Care

Balanced water means healthy water. This chart outlines the ideal levels for balanced pool care.

Ideal Levels and HTH® Products Used for Balanced Pool Care

Parameter	What is it?	When to Test
pH	A measure of the water's acidity	Everyday
Free Available Chlorine (FAC)	The amount of active chlorine in the water	Everyday
Total Alkalinity (TA)	The water's ability to keep the pH at a proper level	Once a week
Calcium Hardness (CH)	The amount of dissolved calcium in the water	Once a week
Cyanuric Acid/Stabilizer (CYA)**	The measurement of the FAC's ability to be protected from the ultraviolet rays of the sun (these rays decrease chlorine in pool water)	Twice a season

*Adjust pH in the range of 7.2–7.6 when using HTH Chlorinating Granules or HTH 3-in-1 Chlorinating Skimmer Tablets. Adjust pH in the range of 7.2–7.8 when using HTH Dual Action 3" Chlorinating Tablets or HTH Dual Action 1" Chlorinating Tablets.

Ideal Range	Product Used to Adjust Levels
7.2–7.6*	HTH pH Plus or HTH pH Minus
1–4 ppm when using chlorine	HTH Sanitizers or HTH Shock products
60–120 ppm	HTH Alkalinity Plus
200–500 ppm	HTH Calcium Plus
Ideal range: 20–50 ppm Do not exceed 100 ppm	HTH Stabilizer & Conditioner

**Allow at least 48 hours for the stabilizer to dissolve before adding an HTH sanitizer.

Filtration and Circulation

Maintaining proper circulation and filtration is necessary to ensure efficient distribution of products and filtration of debris.

Filter Maintenance

- Sand Filters
 - Backwash the filter when the pressure increases 8 psi to 10 psi over initial reading
- Diatomaceous Earth Filters
 - Follow the manufacturer's directions for backwashing
- Cartridge Filter
 - Clean the filter per the manufacturer's directions
- Use **HTH Filter Cleaner** to clean all three filter types at least twice a season

Water Circulation

- Make sure all equipment is working properly and in place
- Run the pump and filter at least 10 to 12 hours per day - sometimes longer
- Chemically clean the filter at least twice per season
 - Use **HTH Filter Cleaner**
- Position return inlets downward at 45° and slightly to one side
- Clean skimmer baskets and hair and lint strainer (on the pump)

Step 1: Test & Balance

Testing the water is a very simple process. Use an HTH® Test Kit or Test Strips to measure pH, free available chlorine (FAC), total chlorine, calcium hardness (CH), total alkalinity (TA) and cyanuric acid/stabilizer (CYA).



- HTH 6-Way Test Kit
- HTH 3-Way Test Kit
- HTH 6-Way Test Strips
- HTH Test Kit Refill

Tips for Testing Pool Water:

The HTH 6-Way Test Kit:

The **HTH 6-Way Test Kit** measures the following parameters: pH, total chlorine, bromine, total alkalinity, calcium hardness and cyanuric acid/stabilizer. The **HTH 3-Way Test Kit** measures total chlorine, total bromine and pH. Follow the instructions below for both kits.

Directions:

- Wait 24 hours after a shock treatment before testing for FAC or pH.
- Rinse the collection container a few times with pool water. Do this before and after each use.
- Collect water that is 18 inches (about an arm's length) below the surface of the water and away from an inlet pipe.
- Test the water promptly after collecting it.
- Hold bottles vertically when dispensing drops.
- Replace test kit reagents yearly.
- Store the test kit in a cool, dark place.

The HTH 6-Way Test Strips:

The **HTH 6-Way Test Strips** measure the following parameters: pH, free chlorine, bromine, total alkalinity, calcium hardness and cyanuric acid/stabilizer.

Directions:

- Dip strip (do not swirl) and remove immediately.
- Do not shake excess water off.
- Hold strips horizontally.
- Hold case horizontally and position the strip over (not touching) colors, and match dominant color of textured pads to color chart.

After testing, the first step in maintaining safe, sparkling clear water is to balance. Balanced water prevents corrosion, etching, equipment damage and scale buildup. It also ensures maximum sanitizer efficiency.

The following are products that are used to balance the water:



- **HTH pH Plus** raises pH levels.
- **HTH pH Minus** lowers pH levels, use this product to help lower alkalinity levels.
- **HTH Alkalinity Plus** helps maintain proper pH level and raises alkalinity in pool water.
- **HTH Calcium Plus** raises calcium hardness in pools plus helps prevent corrosion of metal and plastic surfaces.

Other Balance products help clarify, improve filter efficiency, or reduce metals and staining.



- **HTH Stabilizer** protects chlorine in pool water and prevents chlorine loss due to intense sunlight.
- **HTH Filter Cleaner** for cartridge, sand or diatomaceous earth filter. Helps filtration systems work more efficiently by removing dust, oil and lotion. Biodegradable and non corrosive.
- **HTH Clarifier** cleans cloudy, dull pool water.
- **HTH Natural Clarifier** naturally clarifies cloudy pool water and eliminates oil and scum.
- **HTH Super Concentrated Clarifier** restores crystal clear pool water. Does not effect pH balance and improves filter efficiency.

Step 2: Sanitize

There are three important reasons to sanitize your pool:

1. Health – to prevent the spread of infection and disease
2. Safety – pool water must be free of cloudiness to contribute to water safety and the bottom of the pool should be visible at all times
3. Aesthetics – because there's nothing like a sparkling blue, crystal clear pool

Choosing a Sanitizer

HTH® Pool Care offers two types of chlorine-based sanitizers: stabilized and unstabilized. Stabilized chlorine contains cyanuric acid/stabilizer, which shields the water from chlorine degradation caused by the sun's harmful ultraviolet rays. Unstabilized chlorine does not contain cyanuric acid/stabilizer and may degrade more quickly from ultraviolet rays if it is not used in conjunction with cyanuric acid in the pool. If the cyanuric acid/stabilizer levels are too high in your pool water, over stabilization or chlorine-lock can occur.

Yellow HTH sanitizers will not cause over stabilization. The **HTH 3-in-1 Chlorinating Skimmer Tablets** dissolve slowly and are for use in skimmers, whereas the **HTH Chlorinating Granules** can be broadcasted directly into the pool or through the skimmer.



HTH Chlorinating Granules

- Sanitizes pool water
- Kills bacteria and controls algae



HTH 3-in-1 Chlorinating Skimmer Tablets

- Sanitizes pool water
- Inhibits scale
- Contains skin softener

We recommend using **HTH Stabilizer & Conditioner** with our unstabilized (yellow) chlorinators. Always add this product before you add sanitizer. Allow at least 48 hours for the stabilizer to dissolve.



HTH Dual Action 3" Chlorinating Tablets



HTH Dual Action 1" Chlorinating Tablets

- Protects against bacteria and algae
- Sun protected for extended chlorine life
- Available in 1" and 3" tablets

HTH stabilized sanitizers/chlorinators are sun-resistant for extended chlorine life during hot summer months. The tablets are designed for use in skimmer baskets, floaters or feeders for long-lasting chlorination.

If you are using **HTH Dual Action Chlorinating Tablets**, **HTH Metal Control** should be added weekly as part of your regular pool maintenance routine.

What is over stabilization?

Excessive amounts of stabilizer can cause over stabilization. This is the buildup of cyanuric acid in your swimming pool water resulting from the use of stabilized sanitizers and stabilized shock products. Over stabilization significantly decreases the effectiveness of chlorine in killing germs, bacteria and algae. **Note:** Over stabilization can happen in less than one season.

Symptoms of over stabilization:

- Cloudy water
- High chlorine reading with algae
- Adding chlorine does not remove algae

Solution:

- Turn on pool pump and make sure it does not need to be backwashed or cleaned and ensure it is running properly.
- Test and adjust the stabilizer level to 20–50 ppm by partially draining some water from the pool and top-off with fresh water.
- Adjust the pH, FAC, TA and CH to the ideal levels recommended in the **Balanced Pool Care Chart**.
- Continue with routine pool maintenance program.

Step 3: Shock Weekly

Shock treating your pool weekly is important because it protects you and your family from bacteria and organic contaminants. Super chlorination or shock treating removes chloramines, which cause eye irritation and “chlorine” odors from the pool water by adding free available chlorine (FAC).

A shock treatment adds 5 to 10 ppm FAC. The pump and filter should be in operation when shocking your pool. After shock treatment, check to make sure the FAC level is in the range of 1 to 4 ppm before entering the pool.

HTH® Pool Care recommends shocking at the same time and day each week. Sundown is the optimum time to shock your pool because the chlorine can work without fighting the sun’s ultraviolet rays. Shocking after sundown also gives chlorine more time to restore water clarity.

Apply an additional shock treatment when any of the following situations occur:

- After heavy swimmer load
- After strong rains and winds
- During periods of extreme sun
- Unpleasant odors
- Signs of algae growth appear
- Water appears dull, hazy, or cloudy



HTH Shock 'N Swim

- 5 lb. bottle
- Individual 1 lb. bag
- Box with 5 convenient pre-measured 1 lb. bags

This product destroys organic contaminants and restores FAC to the water.



HTH Green to Blue Shock System

- In 24 hours your pool will once again be blue
- Transform your green water to clear, sparkling sea of blue



HTH Super Shock 'N Swim

- Individual 1 lb. bag
- Box with 5 convenient pre-measured 1 lb. bags

This product removes organic waste to restore sparkling clean, swimming pool water. It is also buffered for pH control.

Step 4: Prevent Algae

If you use a preventative algaecide on a weekly basis, algae should not be a problem. However, if you do happen to get stubborn algae, you should use an HTH® algaecide to alleviate the problem.

To get rid of stubborn algae, follow this simple program:

1. Scrub the affected area with the **HTH 18" Curved Wall Brush** to puncture the outer membrane of the algae.
2. Use an HTH shock product to double shock treat. Apply directly to the affected area.
3. The following morning, scrub the affected area with the brush again and add the appropriate **HTH algaecide**. Let the pump run overnight.
4. Let the pump run overnight.
5. Return to the pool once the available chlorine level is between 1 and 4 ppm.



HTH Algae Guard™

10% strength

- Protects against algae growth and is a non-foaming formula
- 1 gallon bottle



HTH Algae Guard™
3X Concentrate

30% strength

- Concentrated formula is 3x stronger than original **HTH Algae Guard™**
- Prevents green, black and yellow algae



HTH Super
Algae Guard™

60% strength

- Prevents green, black and yellow algae and is a non-foaming formula
- Quart size bottle



HTH Super Extended
Algae Guard™

Previously HTH® Algae Guard

- A single treatment of this copper-based algaecide lasts three months



HTH YellowRid®

Pool Maintenance

- Aids in algae cleanup without brushing
- Treats 15,000 gallons

HTH® Accessories

Pool Care Accessories

From leaf rakes to vacuum heads to wall brushes, HTH Pool Care offers a full line of accessories for all your pool care needs.

Vacuums & Hoses

HTH Universal Vacuum Head

- Fits all types of hoses
- Ideal for all pool types

HTH Spa & Small Pool Vacuum

- Easy assembly
- Works with above ground and pop-up pools, spas, ponds and waterfalls

HTH 50' Pool Backwash Hose

- Fits all types of filters
- Standard size 1 1/2 inch diameter

HTH 35' Universal Swimming Pool Vacuum Hose

- Super flexible
- Use in above/in-ground pools

Floaters

HTH Swimming Pool Tablet Floater

- Automatically release chlorine into the pool
- Provide steady and continuous sanitization

HTH Small Pool Floater

- Automatically release chlorine into the pool
- Provide steady and continuous sanitization

Patch Kits & Thermometers

HTH Vinyl Pool Repair Kit

- Patches small cracks and tears under water
- Do not have to empty pool

HTH Vinyl Patch Kit

- Patches small cracks and tears under water
- Do not have to empty pool
- Multi-use container for storage and applying patch

HTH Pool & Spa Thermometer

- Shatter resistant lens
- Easy to read large numbers



Maintenance & Cleaning

HTH 18" Curved Wall Brush

HTH Leaf Skimmer

- Skim debris off water surface
- Won't scratch spas, pool walls or vinyl liners

HTH Leaf Skimmer with Telescoping Handle

- Skim debris off water surface
- Won't scratch spas, pool walls or vinyl liners
- Telescoping handle extends 44"

HTH Leaf Rake

- Deep net scoops debris from pool floor
- Super flexible frame

HTH Telescopic Pole

- Locking grip
- Compatible with existing industry products

Filter Media

HTH D.E. Filter Aid

HTH Pool Filter Sand

Recycled Content

Notice our accessories look a little different? That's because we've started using recycled materials in many of our new accessories.

- Whenever possible, we use the most amount possible (4% to 92%) while still delivering you a reliable product.
- On each item that contains recycled content, you'll see the green icon explaining the exact percentage that makes up that accessory.
- This is also why our accessories are the new lighter color, showing the use of recycled material.

Also marked
on product



HTH® Pop-Up/Above Ground Products

Above Ground / Pop-Up & Accessories

HTH Pop-Up Pool Start Up and Maintenance Kit

This start up and maintenance program is designed specifically for pop-up and above ground pools ranging from 8 to 24 feet in diameter.

The kit contains:

- One 1 lb. **HTH Shock 'N Swim** for Pop-up Pools
- One 1 lb. **HTH Chlorinating Granules** for Pop-up Pools
- One 15 oz. **HTH Stabilizer & Conditioner** for Pop-up Pools
- 10 **HTH Test Strips**

Products available for individual sale:

- **HTH Shock 'N Swim** for Pop-up Pools
- **HTH Chlorinating Granules** for Pop-up Pools
- **HTH Dual Action 1" Chlorinating Tablets** for Pop-up Pools



HTH Pool Care also offers the following items for use with pop-up pools:

- HTH pH Minus
- HTH pH Plus
- HTH Algae Guard
- HTH Clarifier
- HTH Calcium Plus
- HTH Alkalinity Plus



HTH® Green Tips

We, at HTH Pool Care Products, know that our consumers are trying to live their lives more efficiently while making an effort to preserve the earth and its renewable resources. We wanted to share a few tips to help you utilize your HTH Pool Care Products and operate your pool effectively throughout the season.

1. Make chlorine last longer

- Add chlorine in the evenings
- Add stabilizer to pool, extending life of chlorine

2. Heat your Pool for less:

- Use a bubble cover to help trap heat and minimize evaporation, saving both water and energy

3. Heat your Pool with Solar Energy

- Uses natural renewable energy to heat your pool
- Requires less maintenance

4. Plant near your pool

- Decreases water evaporation
- Helps absorb carbon dioxide in the air

5. Reduce Waste

- Recycle used containers
- Rinse empty containers in pool to eliminate waste water

Don't think we are leaving all the work for you! Here are a few ways that we have helped the earth by doing our part.



Reduce - Since 2008, we have saved over 12,000 trees by reducing corrugate used in our packaging.



Reuse - We reuse materials at manufacturing plants along with using recyclable materials in our collateral. This guide is printed on recycled material.



Recycle - We implemented recycling programs at manufacturing plants and offices to reduce solid waste output.

What's in store for the future? We are continually looking for more ways to reduce our carbon footprint by offering concentrated products, lighter packaging, and working to reduce energy use in the manufacturing of our products.

If you have a pool with a salt chlorine generator, it is still important to follow a regular maintenance routine. Although your salt chlorine generator is producing your routine sanitizer (chlorine), other important pool care issues still need your attention.

The same 4-Step Program recommended for traditional chlorine pools is also applicable to a pool using a salt chlorine generator for sanitization. Make sure to always follow the salt manufacturer instructions for warranty purposes, as some manufacturers prohibit the use of certain pool maintenance products with their device.

Step 1: Test & Balance

- HTH Balancers are compatible with salt chlorine generator pools.

Step 2: Sanitize

- Your salt chlorine generator is providing routine sanitization with the chlorine it is producing. However, there must be salt present in your water for the generator to create chlorine. Please refer to your manufacturer's directions for further instructions.

Step 3: Shock Weekly

- Both **HTH Shock 'N Swim** and **HTH Super Shock 'N Swim** are compatible for use with salt chlorine generator pools and will help maintain calcium hardness in pool water.

Step 4: Prevent Algae

- HTH algaecides are compatible with salt chlorine generator pools.

For salt chlorine generator pools, follow the same recommended levels in the Balanced Pool Care Chart.

As with any pool, if you do not properly care for your generator or pool water, various problems may arise in and around your salt chlorine generator pool. Some issues that affect pools using a salt chlorine generator are the following:

- Cell corrosion
- Chalky residue on deck and surrounding area
 - Rinse deck with water weekly
- Metal erosion
- Heater damage
- Stains
- Salt water can cause certain concrete water features and sandstone rocks to dissolve. It is important that your builder assure you that these features are compatible with your salt water system. Salt water does not affect most vinyl-lined pools.



- **HTH Salt Pool Care Cell Saver** Extends life of salt chlorine generator cell. Prevents scale buildup and protects pool surfaces from staining.
- **HTH Salt Pool Care 3-in1 Salt Startup** clarifies cloudy, dull pool water and controls metal to prevent stains and scale.
- **HTH Salt Pool Care Restore & Balance** Balances water for optimal sanitizer effectiveness
- **HTH Salt Pool Care Test Strip Dual-Pack** contains 10 test strips for use with salt chlorine generator. Delivers results in 3-4 minutes. Also includes 25 of the **HTH 6-Way Test Strips**.

Troubleshooting

Problem	Symptom	Possible Causes
<i>Green, Black or Dark Yellow Algae</i>	- Slippery pool surface - Slimy walls - Dull green water - Visible algae growth	- Low free available chlorine (FAC) - High pH
<i>Chlorine Odor</i>	- Water smells like chlorine - Eye irritation - Complaints of “too much chlorine in the water”	- Low free available chlorine - High combined chlorine
<i>Cloudy Water</i>	- Hazy, cloudy water - Lack of sparkle	Early algae growth
		High pH
		High total alkalinity
		Poor filtration
<i>Corrosion of Metal Parts</i>	- Metal fixtures have rust - Discolored water	Low pH
		Low total alkalinity
		Low calcium hardness

Solution
- Adjust pH into the range of 7.2–7.4 with HTH® pH Minus or HTH pH Plus at least one hour before shocking - Shock treat your pool water with an HTH shock product - Brush walls vigorously using the HTH 18” Curved Wall Brush - Run filter for 24 hours or until water clears - Vacuum - Add an HTH algaecide
- Adjust pH into the range of 7.2–7.4 with HTH pH Minus or HTH pH Plus at least one hour before shocking - Shock treat your pool water with an HTH shock product
- Adjust pH into the range of 7.2–7.4 with HTH pH Minus or HTH pH Plus at least one hour before shocking - Shock treat your pool water with an HTH shock product
Lower pH into the range of 7.2–7.6 (calcium-hypochlorite based sanitizers) or lower pH into the range of 7.2–7.8 (trichloro-s-triazinetriene based sanitizers) with HTH pH Minus
Lower total alkalinity with HTH pH Minus
Check filter operation
Raise pH into the range of 7.2–7.6 (calcium-hypochlorite based sanitizers) or lower pH into the range of 7.2–7.8 (trichloro-s-triazinetriene based sanitizers) with HTH pH Plus
Raise total alkalinity into the range of 60–120 with HTH Alkalinity Plus
Raise calcium hardness to a minimum of 200 ppm using HTH Calcium Plus

* Please use all products in accordance with label directions.

Troubleshooting

Problem	Symptom	Possible Causes
Foaming	• Foam	• Buildup of body oils, cosmetics or other contaminants • Use of some algaecides
Scale	• White, gray or brownish chalky deposits on pool walls and fixtures	• High pH
		• High total alkalinity
		• High calcium hardness
Scum	• Ring around the pool	• Body oils and dirt accumulation
Too Much Available Chlorine	• Bleached hair and bathing suits • Possible eye irritation • FAC is higher than 4 ppm	• Too much chlorine
Eye and Skin Irritation	• Red eyes • Itching skin	• Low free available chlorine
		• Unbalanced pH
Discolored Water	• Green, hazy water	• Algae growth
	• Clear blue-green water	• Excess copper
	• Black or purple water	• Excess manganese
	• Dark green to brown water	• Excess Iron

Solution
Use HTH Spa™ Defoamer
Lower pH into the range of 7.2–7.6 (calcium-hypochlorite based sanitizers) or lower pH into the range of 7.2–7.8 (trichloro-s-triazinetriene based sanitizers) with HTH pH Minus
Lower TA by using HTH pH Minus to the range of 60-120 ppm
An excessively high hardness level may require that some water to be drained from the pool
Clean pool surface with a scrubbing pad designed for your pool surface
Allow sunlight to decrease free available chlorine Stop adding chlorine until the free available chlorine level is at 1.0–4.0 ppm
1. Adjust pH into the range of 7.2–7.4 with HTH pH Minus or HTH pH Plus at least one hour before shocking 2. Shock treat your pool water with an HTH shock product
1. Adjust pH into the range 7.2–7.4 with HTH pH Minus or HTH pH Plus at least one hour before shocking
Add an HTH algaecide according to directions
Use HTH Metal Control according to directions
Use HTH Metal Control according to directions
Use HTH Metal Control according to directions

Opening Your Pool

When it's time to open your pool for the swimming season, let **HTH® Pool Care Products** get the water just right. Use the **HTH Pool Start Up and Maintenance Kit** and follow the simple steps below:

Prepare the Equipment

1. Remove any water and debris that have accumulated on your pool cover during the winter.
2. Take off the pool cover. Clean the cover to prevent mildew and premature deterioration.
3. Hook up the pool pump and filter. Reconnect any hoses and electrical connections that may have detached.
4. Make sure your skimmer(s), filter(s), pump(s), drain(s) and other equipment are clean and free of winter debris.
5. Use the **HTH Leaf Skimmer** to scoop up all surface and submerged debris.
6. Clean dirty pool walls immediately with the **HTH 18" Curved Wall Brush**.
7. Bring the pool water up to the proper level.
8. Make sure all hoses and electrical hookups are in order.
9. Turn on filter pump.
10. Check the skimmers, drains and filters to make sure they're functioning properly.
11. Use the **HTH Universal Vacuum Head** along with the **HTH 35' Universal Swimming Pool Vacuum Hose** to remove any remaining debris.
12. Run the filter for 12 hours before testing the water.

Prepare the Pool Water

1. Test and balance water.
2. Adjust the pH, FAC, TA and CH to the ideal levels recommended in the Balanced Pool Care Chart.
3. If needed, stabilize your water using **HTH Stabilizer & Conditioner**.
4. Shock treat pool water with an HTH shock product.
5. Continue with routine maintenance following the 4-Step Program.

CAUTION: Please read the following important reminders before adding pool chemicals to water.

- **NEVER** mix products with other products or dissolve before use.
- Re-entry into treated pools is prohibited above FAC levels of 4 ppm for risk of bodily harm.

*** Always read and follow label directions carefully.**



Closing Your Pool

Cold Climate

1. Test and adjust water balance. Use HTH test kits or HTH test strips to measure pH (adjust to 7.2–7.6) at least one hour before shock treating your pool, add TA (adjust to 60–120 ppm), CH adjust to 200–500 ppm and free available chlorine.
2. Adjust free available chlorine to 1–4 ppm.
 - Shock treat
 - Shock again using **HTH Winterizing Pool Closing Shock** as a winterizing dose
3. Run the filter pump for 24–48 hours.
4. Clean pool by thoroughly vacuuming and removing any floating debris.
5. Add **HTH Winterizing Closing Algae Control** per winterizing directions on bottle label to prevent algae.
6. Add **HTH Winterizing Stain & Scale Control** per winterizing directions on bottle label to protect your pool from stain and scale during the winter.
7. Follow pool manufacturer's directions on draining pool so that water level is below the skimmers, and flush and drain any hoses that will remain outdoors during cold winter months.
8. Shut off filter pump and drain pool plumbing. Drain pump, filter, heater and all other equipment according to manufacturer's directions. Properly store all equipment indoors to prevent damage from freezing temperatures. Follow manufacturer's directions for lubrication and proper storage.
9. Clean the filter.
10. Cover pool with a properly fitted pool cover. Cover should be resistant to water, weather and pool chemicals. Seal the edge of the cover to prevent wind from getting beneath the seal. This will save you clean-up time when you reopen your pool by keeping out unwanted debris.

Warm Climate

1. Decrease filter cycle to half of its swimming season setting, but not less than 4–6 hours daily.
2. Test and adjust water balance weekly or as needed.
 - Use **HTH test kits** or **HTH test strips** to measure pH (adjust to 7.2–7.6 at least one hour before shock treating your pool) and free available chlorine
 - Adjust free available chlorine to 1.0–4.0 ppm
3. Clean the skimmer weekly or as needed.
4. Maintain pool equipment by following manufacturer's instructions for proper care of equipment while pool is closed.
5. Vacuum pool as necessary.
6. If you're going to cover your pool, shock treat the water before applying the cover.
7. Cover pool if desired. Even though you are not closing down your pool completely, you may want to cover it to keep out leaves and dirt, as well as conserve on the use of chemicals and chlorination.



HTH Pool Closing Winterizing Products - can be used in cold and warm climates.

HTH Winterizing Kit - Contains the following

- 1– 2 lb. **HTH Winterizing Pool Closing Shock**
- 1– 10.4 oz. **HTH Winterizing Stain & Scale Control**
- 1– 4 oz. **HTH Winterizing Algae Control**

HTH Winterizing Pool Closing Shock Destroys organic contaminants and restores FAC to the water.

HTH CareSM

HTH® Water Products is committed to your safety, and while no pool care guide can take the place of common sense and precaution, we recommend the following guidelines in order to help you and your family safely enjoy your pool.

Pool Product Safety:

Pool chemicals can be harmful if the proper care is not taken. Contamination or improper use of these chemicals may cause a fire, explosion or the release of toxic gases. Read and follow all labels carefully.

Always

- Wear safety equipment when handling chemicals including gloves, goggles, long sleeves and pants.
- Store your chemicals in cool, dry, well-ventilated places.
- Keep your chemicals tightly covered when not in use.
- Store liquids upright.
- Read product labels and follow directions when adding chemicals to your pool.
- Add pool chemicals directly to your pool.
- Isolate spilled chemicals, and read and follow directions for cleanup and disposal.
- Completely use up the product before disposing of the container.
- Thoroughly clean and dry product containers prior to disposal.
- Wash your hands thoroughly after handling chemicals.

Never

- Allow pool chemicals to come into contact with your skin, eyes or mouth.
- Inhale or ingest pool chemicals.
- Store chemicals in a place where they can be accessed by children or pets.
- Store chemicals in a place where they can be contaminated by any other material. They can react with other materials, including other pool chemicals, to cause a fire, explosion, or release of toxic gases.
- Add water to pool chemicals or expose them to small amounts of water. They can react violently to produce heat and toxic gasses.
- Mix different chemicals to allow pool chemicals to come into contact with other pool chemicals or any other materials.
- Pre-mix or pre-dissolve pool chemicals before adding them to your pool.
- Smoke, grill or allow any open flame near stored chemicals.
- Put spilled product back into the container, doing so will contaminate the rest of the product.
- Dispose of product container without reading product label for directions.
- Dispose of spilled product by pouring into trash or drain.

HTH Care

Emergency Contact

1-800-654-6911

- Call the Arch Chemicals Emergency Action Network (ACEAN) line for assistance in disposing of chemicals. Do not throw them in the trash.
- If any of your pool chemicals spill, call the ACEAN line for special handling instructions.
- Do not backwash into a stream or river.
- Do not throw spilled material into trash.
- A spill requires emergency handling if there is any sign of activity such as a bulging container, bubbling, hissing, gassing, smoking or fire. In such an event, call the ACEAN line and notify them of the activity.

Chemical Exposure

If you're exposed to pool chemicals, contact a physician immediately and follow the appropriate steps as listed below:

- In the event of skin or eye contact with chlorine products, flush the area with water for at least 15 minutes.
- If chemicals are accidentally ingested, sip on water, but do not induce vomiting. Never give anything to drink to an unconscious person.
- If fumes have been inhaled, move the affected person to fresh air as quickly as possible.
- If there is an emergency requiring immediate medical attention, call 911 immediately.

Pool Care Questions

1-866-HTH-POOL (1-866-484-7665)

This is the HTH Helpline, which is open between 8 A.M. and 10 P.M. Eastern Time. The experts who answer the phone are trained to answer pool and spa care questions. You can also email your pool and spa care questions through "Ask an Expert" on our website — www.hthpools.com

We hope the pool care tips and helpful hints in this guide make caring for your pool easier and more relaxing than ever. We're ready to help you create sparkling blue, crystal clear water so you can enjoy your pool the way it was meant to be.

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