



# **PristineBlue**®

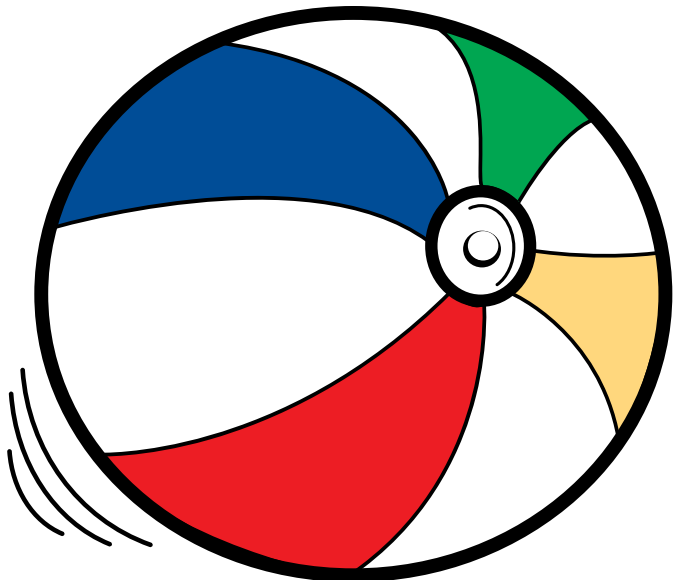
Effective, Affordable & Chlorine Free

# POOL & SPA CARE GUIDE



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# Easy, Gentle Pool Care

Going non-chlorine is easier than ever with **PristineBlue®**.

Water treated with **PristineBlue®** feels softer and looks inviting without a chemical taste or odor. It's gentle to equipment and won't bleach your liner or swimsuit. You can swim immediately after application. Your eyes won't burn . . . and you won't believe how good your skin and hair feel after swimming.

And it's easy! The long-lasting formula of **PristineBlue®** lets you escape the chore of daily water testing and maintenance. Just follow the maintenance program in this guide once every 2 weeks.

If you have questions along the way, check with your pool, spa or swim spa dealer. They can analyze your water, recommend products and assist you with all aspects of pool, spa or swim spa ownership. You can also visit [www.pristineblue.com](http://www.pristineblue.com) on the Internet or call us at (800) 257-9283.

**Use these stickers on your calendar or planner to remind you when it's maintenance day.**

# PristineBlue® Pool and Spa Care



**PristineBlue®** is the cornerstone of the system. **PristineBlue®** is used to control algae and nonpublic health bacteria, and bacteria that cause odor problems in residential swimming pools, spas and hot tubs. **PristineBlue®** is environmentally friendly, EPA registered as an algicide/bactericide\* and Certified for addition to drinking water by NSF International. The active ingredient in **PristineBlue®**, copper ions, is bonded with a unique carrier which allows us to introduce enough copper into the water to control both bacteria and algae!

After the initial dose, you'll measure the level of **PristineBlue®** every 2 weeks and "top it off" with more **PristineBlue®**. The active ingredient in **PristineBlue®** stays suspended in the water constantly to prevent the growth of algae and bacteria.



**PristinePower®** is a pH-buffered "shock" and non-chlorine oxidizer. It dissolves quickly and removes odors and organic materials, contaminants and body oils that otherwise build up and cause cloudy or dull water. Weekly or biweekly shocking is recommended

for pools and swim spas; in spas or hot tubs we recommend a dose of **PristinePower®** after each use of the tub, not to exceed once per day.



**PristineExtra®** contains 99% sodium di-chlor which dissipates rapidly, therefore rendering the water back to a non-chlorine status. **PristineExtra®** may be used for troubleshooting if necessary.



**PristineClean®** ensures sparkling clean surfaces in your water by inhibiting scale formation and stains caused by metals. It prevents the metal and mineral particles that enter your water through hoses, jewelry and metal equipment from bonding to pool walls and other surfaces. **PristineClean®** is added every 2 weeks along with **PristineBlue®**.



**PristineBlue® Mini Test Kit™** measures the **PristineBlue®** level of the pool, spa and swim spa water.



**PristineCheck®** is a water prep that gets your pool, spa or swim spa water ready for the introduction of **PristineBlue®**. It's essential to backwash or clean the filter 24 hours after the use of **PristineCheck®**.

**PristineCheck®** is applied in pools and swim spas when starting **PristineBlue®** for the first time and every year at spring opening. In spas it should be used whenever the spa is refilled. If your source water is high in calcium, we recommend an application of **PristineCheck®** whenever you add makeup water to the pool, spa or swim spa.



**PristineClear®** clears cloudy water in pools, spas and swim spas bringing suspended particles together enabling the filtration system to better remove the particles.



**PristinepHDown™** contains the ingredient sodium bisulfate. This product decreases the pH and total alkalinity of the pool, spa or swim spa water.



**PristinepHUp™** contains the ingredient sodium carbonate. This product increases the pH of the pool, spa or swim spa water.



**PristineAlkUp™** contains the ingredient sodium bicarbonate. This product increases the total alkalinity of the pool, spa or swim spa water.



**PristineMist™** prevents odor and discoloration to the underside of the spa cover. Use this spray every 4 to 6 weeks.



**PristineStrips™** are used for testing the total alkalinity and pH of the pool, spa and swim spa water.

# Frequently Asked Questions

**Is PristineBlue® compatible with other products?** Like all chemicals, **PristineBlue®** may react with certain products and create problems in your pool, spa or swim spa. **PristineBlue®** may be used with chlorine or bromine. **PristineBlue®** should NOT be used with metal outs, algicides or biguanide products. See details about product compatibility at [www.pristineblue.com](http://www.pristineblue.com).

**Is PristineBlue® compatible with D.E., sand or cartridge filters?** **PristineBlue®** may be used with all filter types. Nature<sup>2</sup> and microban filters might remove some **PristineBlue®** from the water during the filtration process.

**What is the shelf life of the PristineBlue® product line?** **PristineBlue®** stays active indefinitely and can be used from season to season if stored in a closed container above 32° Fahrenheit. **PristineClean®**, **PristineCheck®** and **PristineMist™** last indefinitely. Unopened packages of **PristinePower®** or **PristineExtra®** will be most effective if used within 1 year of purchase; opened packages should be stored in a tightly sealed container and used as quickly as possible. **PristineClear®** has a 12 month shelf life. **PristineBlue®** Mini Test Kit reagents and **PristineStrips®** should be replaced if more than 2 years old. **PristinepHUp®**, **PristinepHDown®** and **PristineAlkUp®** last indefinitely as long as they are kept dry.

**Will PristineBlue® turn my hair green?** Unfortunately, people with blond or chemically treated hair are susceptible to “swimmer’s hair” regardless of what chemicals the pool is treated with. To prevent swimmer’s hair, use **PristineClean®** as directed on page 8 and maintain proper water balance parameters in the pool. Wetting hair with tap water before swimming and shampooing afterward will help prevent absorption of the agents that contribute to swimmer’s hair. For additional information visit [www.pristineblue.com](http://www.pristineblue.com).


**Can I use PristineBlue® with any pool surface?** **PristineBlue®** can be used in pools with vinyl liner, cured plaster, gunite, marcite and other similar cured surfaces. **PristineBlue®** is not recommended for use in newly constructed or resurfaced gunite, marcite, new plaster and similar surfaces for 6 months. Bleaching agents like chlorine or bromine are needed to aid new surfaces in curing. **PristineBlue®** may be used in most situations after 6 months.

**Can I use PristineBlue® if my spa has an ozonator?** Absolutely! In fact, **PristineBlue®** is a great complement to ozone systems. Ozone has a quick kill but has a very short residual, allowing bacteria and algae to re-grow. The extremely long residual of **PristineBlue®** prevents algae and bacteria from coming back.

# Calculating Water Volume

**Know Your Volume.** One of the most important pieces of information you can have for your pool, spa or swim spa is the water volume in gallons. Whether you're adjusting pH, shocking or adding **PristineBlue®**, knowing the accurate water volume is essential to make sure you're using the right amount of product. Using too much or too little of some products can actually cause a problem to develop or get worse!

Ideally, your water should be metered as the pool is filled to obtain an accurate pool volume. Since this isn't always possible, we've provided some basic formulas for calculating volume.

 **Rectangle or Square Pool.** To determine your water volume in a rectangular or square pool, multiply length times width times average depth in feet to calculate cubic feet. Then multiply cubic feet times 7.5 to determine gallons of water.

**Spa Water Volume.** Before beginning any water treatment system, you'll need to calculate your spa's volume so you know the appropriate dosages of products to add to the water.

In a spa, with its irregularly shaped seats and wells, the easiest way to determine volume is by fill time. Time how long it takes you to fill the spa, then using the same hose and water pressure, time how long it takes you to fill a one-gallon container. Divide the number of minutes it took to fill the spa by the number of minutes it took to fill the gallon, and you'll get a fairly accurate water volume in gallons. **Example:** It took 30 minutes to fill a spa. You filled a gallon in 6 seconds, or 0.1 minutes. 30 divided by 0.1 equals 300 gallons.

My spa volume is \_\_\_\_\_ gallons.

**Water Balance.** An essential element in maintaining any body of water is what professionals refer to as "water balance". Water balance involves several parameters that must be maintained within certain ranges to make the water comfortable and clear to optimize the effectiveness of the chemicals being added to the water.

For **PristineBlue®**, water balance should be maintained within the following ranges:

- Total Alkalinity: 50 to 90 ppm
- pH: 7.2 to 7.6
- Calcium Hardness: 100 to 300 ppm

Please see page 6 for complete information on water balance.

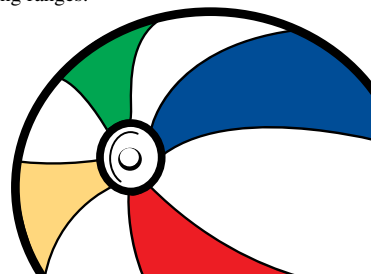
Round	48"	52"
18'	7,600	8,200
24'	13,500	14,600
28'	18,500	19,600
30'	21,200	23,200

gallons                      gallons

**Round or Oval Pool.** To determine your water volume in a round or oval pool, multiply radius times radius times 3.14 times average depth times 7.5.

**Irregular.** If you have an irregular pool shape or are having difficulty calculating your water volume, see your dealer or contact the manufacturer of your pool, spa or swim spa.

My pool volume is \_\_\_\_\_ gallons.



# Water Balance

The levels of total alkalinity, pH and calcium hardness in the water are factors collectively referred to as “water balance.”

Properly balanced water is the most essential element in the prevention of pool, spa or swim spa water problems. Testing the water on a regular basis is vital since water balance can be altered by such things as rain, dirt, leaves, bathers and chemicals. Some problems that occur due to unbalanced water are skin and eye irritation, cloudy or green water, corrosion or scaling of equipment and ineffective algae and bacteria control.

Water balanced to the following ranges helps maximize the effectiveness of **PristineBlue®** making water conditions more user friendly and easier on equipment. It is important that the water is **BALANCED** before starting **PristineBlue®**.

- Total Alkalinity: 50 to 90 ppm
- pH: 7.2 to 7.6
- Calcium Hardness: 100 to 300 ppm

**PristinepHUp™**, **PristinepHDown™** and **PristineAlkUp™** are the products used to adjust the water balance.

You can measure your water balance levels at home or take a water sample to your dealer for analysis. When obtaining a water sample, collect water from elbow depth or below and away from skimmers or inlets.

Anytime you add **PristinepHUp™**, **PristinepHDown™** or **PristineAlkUp™** allow the water to circulate for 24 hours before retesting. This gives the chemicals ample time to treat all of the water.

**TOTAL ALKALINITY.** Total alkalinity and pH are closely related. Total alkalinity provides a buffering effect to add stability to pH, thus preventing drastic changes or “pH bounce.”

Measure your total alkalinity level with the **PristineStrips™**, or take a water sample to your dealer for analysis.

If it is necessary to adjust the total alkalinity of your water, do so **BEFORE** adjusting pH.

- Total Alkalinity: 50 to 90 ppm

**High Total Alkalinity.** To correct high total alkalinity, turn pump off, apply the recommended amount of **PristinepHDown™** by predissolving and pouring directly into the water standing in one location away from any inlets; turn pump back on after application. It may take several applications to lower total alkalinity to the desired level.

**Low Total Alkalinity.** If it is necessary to increase total alkalinity, use **PristineAlkUp™** in small doses until the desired level is reached. Trying to raise the total alkalinity too quickly could result in green and/or cloudy water. Filter constantly while raising total alkalinity.

**pH.** Once the total alkalinity is in the proper range, check the pH using **PristineStrips™**, or take a water sample to your dealer for analysis.

- pH: 7.2 to 7.6

**High pH.** High pH can be lowered by broadcasting premixed **PristinepHDown™** over the water surface.

**Low pH.** Low pH should be adjusted with **PristinepHUp™**. Add in small doses until the desired level is reached. Raising the pH in the water too quickly can cause green and/or cloudy water.

**CALCIUM HARDNESS.** Calcium hardness varies little after introducing **PristineBlue®**. If you don't have a home test kit for calcium hardness, have your dealer analyze a water sample.

- Calcium Hardness: 100 to 300 ppm

**High Calcium Hardness.** The first thing to do is to determine why the water has a high calcium reading. It is either source water or you are using a cal-hypo shock. When source water is high in calcium (over 300 ppm) use **PristineCheck®** each time you add water. We never recommend a cal-hypo shock.

**Low Calcium Hardness.** Low calcium hardness does not generally cause any problems with the **PristineBlue®** system and increasing is not recommended.

# Starting Your Pool

## Chlorine Pool, Spring Opening or Freshly Filled Pool

Start with a clean pool and functional equipment. Remove leaves and other debris and then vacuum. Check to make sure pump, heater and other equipment are operational. Clean or backwash the filter. Run the filter continuously through this start up process.

### Step 1:

- A. Calculate pool volume (see page 5).
- B. Balance the water in the following ranges (see page 6 for details on water balance):
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm

*Balancing the water may take several days. Be patient. It is well worth it.*
- C. Add 2 ounces of **PristineCheck**<sup>®</sup> per 1,000 gallons (20 ounces per 10,000 gallons) of pool water. Add \_\_\_\_\_ ounces of **PristineCheck**<sup>®</sup>. Wait 4 to 6 hours.
- D. Add 1 pound of **PristineExtra**<sup>®</sup> per 10,000 gallons of pool water. Add \_\_\_\_\_ pounds of **PristineExtra**<sup>®</sup>. Calcium based chlorine shock may cause cloudy water. Avoid cal-hypo type shocks. You may have to repeat the **PristineExtra**<sup>®</sup> daily until the water is crystal clear.

### Step 2:

- A. **24 hours after the PristineCheck<sup>®</sup> has been added, backwash the filter or clean the cartridge.**
- B. If you have used **PristineBlue**<sup>®</sup> in the past, test the **PristineBlue**<sup>®</sup> level and add **PristineBlue**<sup>®</sup> according to the Pool Top Off Chart located on page 8.
- C. If you have never used **PristineBlue**<sup>®</sup>, add 2 ounces of **PristineBlue**<sup>®</sup> per 1,000 gallons (20 ounces per 10,000 gallons) of pool water.

It is very important that for the next 2 weeks you maintain your pH in the 7.2 to 7.6 range. **Do not add any more PristineBlue<sup>®</sup> to the pool.** After 2 weeks, follow the instructions on page 8 for Maintaining Your Pool with **PristineBlue**<sup>®</sup>.



## Reminder:

**PristineCheck<sup>®</sup>** is a vital part of start up and spring opening.



# Maintaining Your Pool

## Every 2 Weeks:

1. Balance the water.
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm
2. Test the **PristineBlue**® level and top off according to the chart below.
3. Shock with 1 pound of **PristinePower**® per 10,000 gallons of pool water. You may wish to shock as often as once a week if bather loads are high.  
Add \_\_\_\_\_ pounds of **PristinePower**®.
4. Add 2 ounces of **PristineClean**® per 10,000 gallons of pool water.  
Add \_\_\_\_\_ ounces of **PristineClean**®.
5. Add 2 ounces of **PristineClear**® per 10,000 gallons of pool water.  
Add \_\_\_\_\_ ounces of **PristineClear**®.
6. Filter for 24 hours, then backwash the filter or remove and clean the cartridge.

**PristineBlue**®, **PristinePower**® and **PristineClean**® may be added directly to the pool water without mixing. **Do not pour through the skimmer.** It is not necessary to wait between applications of the different products. You may swim immediately after adding **PristineBlue**®, **PristineClear**® and **PristineClean**®, but you should wait about 15 minutes after adding **PristinePower**® before allowing bathers to enter the water.

Pool Top Off Chart – My Pool Volume Is _____ Gallons											
	Gallons	3000	5000	7000	8000	10000	12000	14000	16000	18000	20000
	<i>Ounces of PristineBlue® to Add</i>										
PristineBlue® Level	0.9 ppm	0	0	0	0	0	0	0	0	0	0
	0.8 ppm	0.5	1	1	1	2	2	3	3	4	4
	0.7 ppm	1	2	3	3	4	5	6	6	7	8
	0.6 ppm	2	3	4	5	6	7	9	11	11	13
	0.5 ppm	2	4	6	7	8	10	12	14	15	17
	0.4 ppm	3	5	8	9	11	13	15	17	19	21
	0.3 ppm	4	6	9	10	13	15	18	21	23	25
	0.2 ppm	4	7	11	12	15	18	21	24	27	30
	0.1 ppm	5	8	12	14	17	20	24	27	31	34

**NOTE: Do not** add **PristineBlue**® more often than every 2 weeks. When **PristineBlue**® is topped off more often than once every 2 weeks, you spend more money than is necessary and risk overdosing and staining the pool.

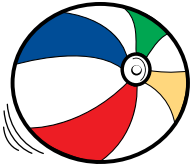
# PristineBlue<sup>®</sup> Maintenance Record

Use this space for pool/spa maintenance record keeping. If you need to contact your dealer with a question, have this information ready.

Volume in Gallons	pH		PristineBlue <sup>®</sup>		PristineClean <sup>®</sup>	PristineClear <sup>®</sup>	
	Date	Level	Adjustment	Level	Amt Added	Amt Added	Amt Added
Age of Pool, Spa or Swim Spa	Example	7.8	18oz. pH Down	0.6	10 ozs	3 ozs	3 ozs
Surface Type							
Filter Type							
Hours Filter Runs per Day							
Heater Type							
Avg. Number of Bathers per Day							

**QUESTIONS?**

Contact your pool, spa or swim spa dealer or call 800-257-9283.



# Tips on Pool, Spa & Swim Spa Care

## When Using PristineBlue®, Remember, "LESS IS BEST"

**Test Source Water.** Before starting any chemical process to your pool, spa or swim spa, it is a good idea to have your source water tested for the following: pH, total alkalinity, calcium hardness, iron, copper, total and free chlorine and phosphates.

**Filter, Filter, Filter.** You can never filter the water too much.

**Heavy Bather Load.** If you have heavy bather loads you might find that you will need to shock once a week with **PristinePower®**.

**General Pool Care.** Along with chemical maintenance, you'll need to clean or vacuum your pool routinely, run and maintain your filter, keep skimmers in good condition and free from debris and regularly check that all equipment is functioning properly. See your pool, spa or swim spa dealer or contact the manufacturer for specific recommendations on equipment usage and care.

**What happens if I add too much PristineBlue®?** The most common signs that occur when too much **PristineBlue®** has been used are cloudy or green tinted water, blue color in the filter or blue staining on the fixtures. To prevent an overdose, do not top off the **PristineBlue®** level more often than every 2 weeks. Double check your water volume to make sure you are adding the proper amount of **PristineBlue®**. If you suspect your pool, spa or swim spa is overdosed, visit [www.pristineblue.com](http://www.pristineblue.com) for detailed information or call us at 800-257-9283.

**How can I clear up water that's cloudy?** Cloudy water can be caused by improper water balance, inadequate filtration or excess calcium. If you experience cloudy water, check the water balance, try an extra shock treatment of **PristinePower®** and increase the amount of time your pump runs each day. For additional information visit [www.pristineblue.com](http://www.pristineblue.com) or call us at 800-257-9283.

**How do I get rid of a stain?** Stains are generally divided into 2 categories: mineral and organic. Mineral stains are caused when metal particles enter the water through hoses, metal equipment, jewelry, zippers, etc. First determine the type of stain by doing a simple test called the "sock test". Always test for a mineral stain first. In an old white sock add 1/2 cup of **PristinepHDown®**, make a pouch and then hold this on the stain for 3 or 4 minutes. If the stain fades you have a mineral stain. If nothing happens, take another old sock, add 1/2 cup **PristineExtra®**, make a pouch and hold this on the stain for 3 or 4 minutes. If the stain fades you have an organic stain. To treat a mineral stain, lower the pH to 6.8, add 3 ounces of **PristineClean®** per 1,000 gallons of pool water and filter for 48 hours. To treat an organic stain, balance the water, add 1 pound of **PristineExtra®** per 10,000 gallons of pool water, filter 24 hours and repeat if necessary.

# Swim Spa Start Up

With **PristineBlue**® in your swim spa, you can relax with the knowledge that the water is being treated without the irritating effects of chlorine or bromine.

**Before using this guide, be sure you know the volume of your swim spa in gallons. Your dealer can help you calculate the volume and assist you with all aspects regarding your swim spa. They can analyze your water, recommend products and help you with any questions you may have.**

## Start Up on PristineBlue®

1. Start with a clean swim spa. Replace or clean the filter thoroughly. The water must be clear.
2. Balance the water in the following ranges (see page 6 for details on water balancing):
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm
3. Add 5 ounces of **PristineCheck**® per 2,500 gallons of water. Filter for 4 to 6 hours.
4. Shock with 4 ounces of **PristineExtra**® per 2,500 gallons of water. Filter for 4 to 6 hours.
5. Clean the filter.
6. Add 5 ounces of **PristineBlue**® per 2,500 gallons of water. Filter for 4 to 6 hours.

We recommend that you be proactive when it comes to your swim spa. If you notice the swim spa becoming cloudy or hazy before your 2 week scheduled maintenance, we recommend that you shock your swim spa with **PristinePower**® at a rate of 4 ounces per 2,500 gallons of water.

## Hints and Tips

Use these helpful ideas to operate your swim spa safely, efficiently and economically.

- Always shower before using the swim spa. Lotions, body oil, sweat, etc. may cloud the water.
- Do not use household cleaners on the swim spa.
- Do not use the swim spa under the influence of alcohol, narcotics or other drugs that can cause drowsiness.
- If you are pregnant, consult your physician before using the swim spa.
- **PristineBlue**® should not be stored below 32° Fahrenheit.

Your swim spa dealer and **PristineBlue**® certified technical support are always glad to answer your questions.

800-257-9283  
www.pristineblue.com

# Maintaining Your Swim Spa

## Every 2 Weeks:

1. Balance the water.
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm
2. Test the **PristineBlue®** level and add according to the Swim Spa Dosage Chart.
3. Shock with 4 ounces of **PristinePower®** per 2,500 gallons of water.
4. Add 1 tablespoon of **PristineClean®** per 2,500 gallons of water.
5. Add 1 tablespoon of **PristineClear®** per 2,500 gallons of water.
6. Filter for 4 to 6 hours and then clean the filter media.

Swim Spa Dosage Chart							
Ounces of PristineBlue® to Add							
Gallons	1000	2000	2500	3000	4000	5000	
PristineBlue® Level	0.9 ppm	0	0	0	0	0	0
	0.8 ppm	0	0.5	0.5	0.5	1	1
	0.7 ppm	0.5	1	1	1	1	2
	0.6 ppm	0.5	1	1.5	2	2	3
	0.5 ppm	1	1.5	2	2	3	4
	0.4 ppm	1	2	2.5	3	4	5
	0.3 ppm	1	2.5	3	4	5	6
	0.2 ppm	1.5	3	3.5	4.5	6	7
	0.1 ppm	2	3.5	4	5	7	8

# Spa and Hot Tub Start Up

**Starting Up on PristineBlue®.** Using your spa volume, calculate the dosages you'll need and enter them in the blanks before adding products to the spa.

Follow the instructions below when starting on **PristineBlue®** and each time you change the water. Spa professionals recommend that you drain and refill your spa every 3 months.

1. Drain the spa and refill. Replace the filter or clean thoroughly.
2. Balance the water (see page 6 for details).
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm
3. Add 10 milliliters of **PristineCheck®** per 100 gallons of water. Circulate 2 to 4 hours.  
Add \_\_\_\_\_ mL **PristineCheck®**.
4. Shock with 5 milliliters (or 1 teaspoon) of **PristineExtra®** per 100 gallons of water. Circulate 2 to 4 hours.  
Add \_\_\_\_\_ mL **PristineExtra®**.
5. **Clean the filter.**
6. Add 6 milliliters of **PristineBlue®** per 100 gallons of water. Run the filter for 1 hour.  
Add \_\_\_\_\_ mL **PristineBlue®**.

**After Each Use of the Spa.** Shock with 5 milliliters (or 1 teaspoon) of **PristinePower®** per 100 gallons of water, not to exceed once per day.

Add \_\_\_\_\_ mL **PristinePower®**.

**Hints and Tips.** Use these helpful ideas to operate your spa safely, efficiently and economically.

- Shower before using the spa. Lotions, body oils, cosmetics, sweat, etc. may cloud the water and shorten the life of the filter.
- Dry the spa surface before replacing the cover after each use to prevent odor and lengthen the life of your cover. Remember to use **PristineMist®** every 4 to 6 weeks.
- Do not store **PristineBlue®** at temperatures below 32° Fahrenheit.
- Spa water should not exceed 104° Fahrenheit. Lower temperatures are recommended for extended use (over 15 minutes) and for children.
- Do not use household cleaners on the spa.
- Do not use the spa while under the influence of alcohol, narcotics or other drugs that can cause drowsiness or raise or lower blood pressure.
- If you are pregnant or have a medical condition, consult your physician before using a spa.
- If the water is cloudy, add 5 milliliters of **PristineClear®** per 100 gallons of water.
- With heavy bather load, add 5 milliliters (or 1 teaspoon) of **PristineExtra®** per 100 gallons of water after each use. Do not exceed once per day.

# Maintaining Your Spa and Hot Tub

## Every 2 Weeks:

- Balance the water.
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm
- Test the **PristineBlue**® level and add according to the Spa Dosage Chart.
- Add 1 milliliter of **PristineClean**® per 100 gallons of spa water. Add \_\_\_\_\_ mL **PristineClean**®.
- Add 1 milliliter of **PristineClear**® per 100 gallons of spa water. Add \_\_\_\_\_ mL **PristineClear**®.
- Add 5 milliliters (or 1 teaspoon) of **PristinePower**® per 100 gallons of spa water. Add \_\_\_\_\_ mL **PristinePower**®.
- Filter for 4 to 6 hours and then clean the filter media.
- Use **PristineMist**® every 4 to 6 weeks to prevent odor and discoloration to the underside of the spa cover.

**Filtration.** Filtration is another vital part of keeping your spa water crystal clear. Most spa manufacturers recommend that water is circulated through the spa filter a minimum of 6 to 8 hours a day, but *you can't filter too much*. Be certain that your filtering schedule is adequate for your spa volume and usage. Keep your filter in top shape by cleaning it regularly and replace your cartridge as needed.

## SPA DOSAGE CHART

Spa Volume (gallons)	100	200	300	400	500	700
Measured <b>PristineBlue</b> ® Level in Spa	ADDITIONAL MILLILITERS OF PRISTINEBLUE® TO ADD					
0.9 ppm	0	0	0	0	0	0
0.8 ppm	1	1	2	3	3	4
0.7 ppm	1	3	4	5	6	9
0.6 ppm	2	4	6	8	9	13
0.5 ppm	3	5	8	10	13	18
0.4 ppm	3	6	9	13	16	22
0.3 ppm	4	8	11	15	19	27
0.2 ppm	4	9	13	18	22	31
0.1 ppm	5	10	15	20	25	35

### QUESTIONS?

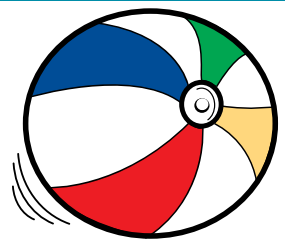
Contact your pool, spa or swim spa dealer or call  
800-257-9283.

# Winterizing

Winterizing or closing a pool means adding products to it at the end of the swim season to keep it clear without constant routine maintenance during the cold winter months.

**PristineBlue**<sup>®</sup> is used to control algae and nonpublic health bacteria, and bacteria that cause odor problems in residential swimming pools, spas and hot tubs. Unlike traditional algicides, which have molecules that break down over time regardless of the presence of algae, the active ingredient in **PristineBlue**<sup>®</sup> is released only when it meets a target (algae or bacteria). A single treatment of **PristineBlue**<sup>®</sup> at the end of the swim season is normally all it takes to keep a pool crystal clear until spring.

1. Balance the water.
  - Total Alkalinity: 50 to 90 ppm
  - pH: 7.2 to 7.6
  - Calcium Hardness: 100 to 300 ppm
2. Shock the pool with 1 pound of **PristinePower**<sup>®</sup> per 10,000 gallons of water. Run the filter for 24 hours.
3. Clean the pool and backwash the filter or clean the cartridge.
4. Test the **PristineBlue**<sup>®</sup> level and add **PristineBlue**<sup>®</sup> using the Pool Top Off Chart on page 8.
5. Add 2 ounces of **PristineClean**<sup>®</sup> per 10,000 gallons of water.
6. Follow the pool and equipment manufacturer's freeze recommendations. Unused **PristineBlue**<sup>®</sup> must be stored at a temperature above 32° Fahrenheit.
7. Cover the pool and shut down the filter.
8. In some climates you might need to check and top off the **PristineBlue**<sup>®</sup> level at mid-winter.





# Converting from Biguanides

## Converting from Baquacil\* or SoftSwim\*

Because biguanides are not compatible with most other pool chemicals, converting to another system from Baquacil\* or SoftSwim\* can be expensive, difficult and time-consuming. **It's very important that all the steps be followed to make the conversion less difficult and less expensive.** It is highly recommended that the pool be converted to chlorine and then operated on chlorine for 2 weeks before you start using **PristineBlue®**. The following instructions are for converting a pool to chlorine:

1. Adjust the pH between 7.2 and 7.6.
2. Shock with 4 pounds of **PristinePower®** per 10,000 gallons of pool water.
3. Filter continuously for 48 hours. The water may become green at this point. Don't be concerned as this is common.
4. After 48 hours of filtration, readjust the pH (7.2 to 7.6) and maintain this level throughout the remainder of the conversion process.
5. **Backwash the filter or clean the cartridge.**
6. Shock daily with chlorine, using 2 pounds per 10,000 gallons until the water is clear. It is preferable to shock in the evening to prolong the dissipation of the chlorine. Filter continuously during this process. Shocking may be needed for 2 weeks or longer to restore the water clarity.
7. To assure that all biguanide residual has been removed, fill a clean, white, 5 gallon bucket half full with pool water. Add 2 tablespoons of granular chlorine. If the water turns muddy or green, there is still biguanide residue in the pool system. Continue shocking daily with chlorine and then repeat the "bucket test." Do this until the water remains clear.
8. Vacuum the pool to waste.
9. **Change the filter media.** This step is very important because biguanide residue may remain in the filter media.
10. Shock with 2 pounds of chlorine per 10,000 gallons of water. If any discoloration occurs on the pool surface or water becomes hazy or tinted, repeat steps 5 through 7.
11. **REBALANCE WATER AND OPERATE POOL ON CHLORINE FOR 2 WEEKS.**
12. If the water is clear without discoloration after 2 weeks of chlorine operation, follow the steps on page 7. If the water is cloudy or discolored, return to step 5.

## Reminder:

**After concluding all the steps in the biguanide conversion, operate the pool on chlorine for 2 weeks before beginning the PristineBlue® system.**

# Glossary

**Acid** – A chemical used to lower the pH of pool, spa or swim spa water.

**Algae** – Microscopic forms of plant life that can enter water by rain, wind, etc. and can discolor water and pool surfaces.

**Algicide/Algaecide** – A chemical used to kill algae or prevent algae growth.

**Backwashing** – Reversing the water flow through a sand filter to clean it. D.E. filters require reapplication of D.E. after backwashing.

**Bacteria** – Microscopic organisms which can contaminate your pool, spa or swim spa and cause cloudy water. Bacteria can enter the water by bathers or from the environment.

**Bactericide** – A product added to the water which kills bacteria.

**Balanced Water** – Water that has the proper ratio of mineral content and pH to prevent corrosion and scaling.

**Bather Load** – The ratio of people in a pool, spa or swim spa compared to the amount of water.

**Biguanide** – The active ingredient used in many chlorine alternatives, including Baquacil\* and SoftSwim\*.

**Broadcasting** – Distributing chemicals in the pool by scattering over the water surface.

**Bromine** – A halogen sanitizer commonly used as an alternative to chlorine; most common in spas.

**Calcium Hardness** – The amount of dissolved calcium in water. The ideal range for **PristineBlue®** is 100 to 300 ppm.

**Cartridge Filter** – A pool, spa or swim spa water filter that uses paper or fabric-like pleats as a filtering agent.

**Chlorine** – The most commonly used sanitizing agent for public swimming pools.

**D.E. (Diatomaceous Earth) Filter** – A water filter which uses diatomaceous earth (tiny prehistoric diatom skeletons) as a filter media. These skeletons are very porous and provide an excellent filter media.

\*Baquacil is a trademark of ARCH. \*SoftSwim is a trademark of BioLab, Inc.

**Filter** – A device that removes particles as water passes through the medium. Most pool, spa and swim spa filter medias are either sand, diatomaceous earth (D.E.) or cartridge.

**Make-Up Water** – Fresh water used to top off the pool, spa or swim spa to the normal level.

**Nonpublic Health Bacteria** – Bacteria that is not found in food or drinking water.

**Organic Matter** – Contaminants derived from living organisms. Leaves, grass, urine, perspiration and other swimmer wastes as well as cosmetics and environmental debris fall under this description.

**Oxidizing** – Adding an oxidizing compound (like **PristinePower**<sup>®</sup>) to the water to chemically break up contaminants such as organic matter, metal ions or dirt. Regular oxidizing is mandatory to prevent cloudy water.

**PPM (Parts per Million)** – A unit of measurement for chemical concentration.

**pH** – A measurement that indicates the acidity or alkalinity of water. The ideal range for **PristineBlue**<sup>®</sup> is 7.2 to 7.6.

**Sand Filter** – A water filter which uses fine silica sand as a filter media.

**Shocking** – See Oxidizing.

**Total Alkalinity** – The amount of certain alkaline minerals in the water. The ideal range for **PristineBlue**<sup>®</sup> is 50 to 90 ppm.

**Winterizing** – The process of closing a pool for the inactive off-season and protecting it from freezing. It includes chemical treatments of the water and physical protection of equipment.



**For Your Information.** Please note that **PristineBlue**<sup>®</sup>, like other non-chlorine systems, is a nonpublic health bactericide and is not a primary disinfectant. Where multiple swimmers or users are present, it may be advisable to use these products with a primary disinfectant to ensure immediate neutralization of bacteria. The information in this guide is, to the best of our knowledge, reliable and the suggestions contained herein are the opinion of Earth Science Laboratories, Inc. You should determine for yourself whether these products are suitable for your applications and objectives. Earth Science Laboratories, Inc. makes no guarantee of satisfactory results from reliance upon this guide and disclaims any liability for any resulting loss or damage. This information is not intended to supersede or conflict with federal, state or local statutes or regulations.



# PristineBlue®

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