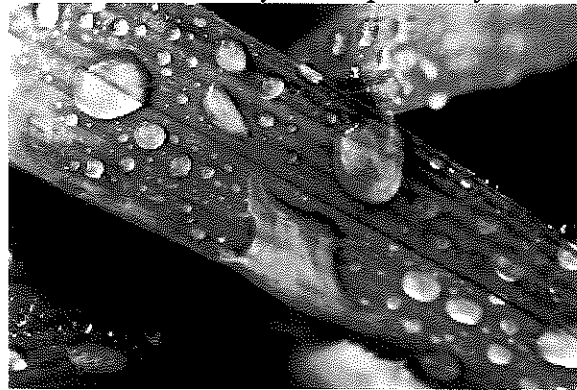


# Bio-Active

## What Is BiOWiSH™ Technology?

The Bio-Active™ product range is powered by BiOWiSH™ technology, a unique composite biocatalyst that combines a wide range of naturally occurring microorganisms, enzymes and co-factors, enabling them to function as an overall unit while retaining their individual specialties. This unique structure has enabled BiOWiSH™ technology to have broad functionality. Its complex catalytic properties facilitate a wide range of biochemical reactions. These reactions have proven effective in hydrolyzing and oxidizing complex organic material into smaller material, helping enhance nutrient uptake, eliminate waste, inhibit pathogen growth, manage nitrogen, and reduce volatile organic compounds (VOCs) and odors. BiOWiSH™ technology has also proven effective in an unusually wide range of environmental conditions, across temperature, salinity, pH, chlorination, pathogen presence and dissolved oxygen content. Today, BiOWiSH™ technology continues to evolve across a variety of settings as a 100% natural, non-toxic and safe means of degrading and digesting organic matter, reducing odors and emissions, improving water quality and is used extensively and available in Asia, Australia, Europe, and the Americas.




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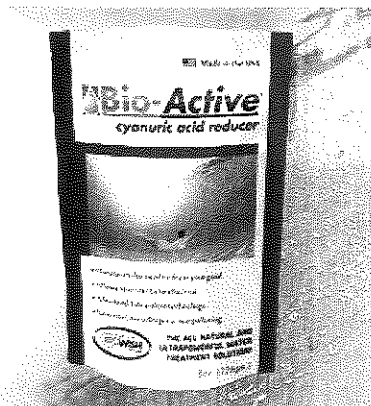
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**The All Natural  
And Ultra Powerful  
Water Treatment  
Solution.**

## Introducing Bio-Active™!



Bio-Active™ is a powerful blend of all-natural microorganisms, enzymes and cofactors specifically optimized for clarification of fresh water and salt water pools, and is compatible with normal chlorine levels. Delivered in active microbial form, these biocatalysts are freeze dried in powder and will reactivate upon mixing with water. This unique blend of biocatalysts converts organic wastes into harmless nitrogen and carbon dioxide gas which escape into the air, and unlike harmful chemicals, leaves no residuals that damage the environment.

## New And Advanced!

Bio-Active™ is delivered in a dry powder format ready for dosing into a body of water. Upon release it is delivered in a live microbial culture that creates a range of enzymes and co-factors which rapidly remove nutrients. Product application is easy. Simply pour the required dosage directly into your skimmer box while running your filter for a minimum of two to four hours after dosing for best

results. These reactions have proven effective in hydrolyzing and oxidizing complex organic material into smaller material, helping enhance nutrient uptake, eliminate waste, inhibit pathogen growth, manage nitrogen, and reduce volatile organic compounds (VOCs) and odors. BiOWISH™ technology also has broad consumer and industrial cleaning, waste management, water remediation as well as odor reduction applications. BiOWISH™ technology has also proven effective in an unusually wide range of environmental conditions, across



temperature, salinity, pH, chlorination, pathogen presence and dissolved oxygen content. Today, BiOWISH™ technology continues to evolve across a variety of settings as a 100% natural, non-toxic and safe means of degrading and digesting organic matter, reducing odors and emissions, improving water quality and enhancing soil fertility. Used extensively and available in Asia, Australia, Europe, and the Americas, BiOWISH™ technology provides a solution to some of the most complex problems of our time, including food production and environmental pollution.

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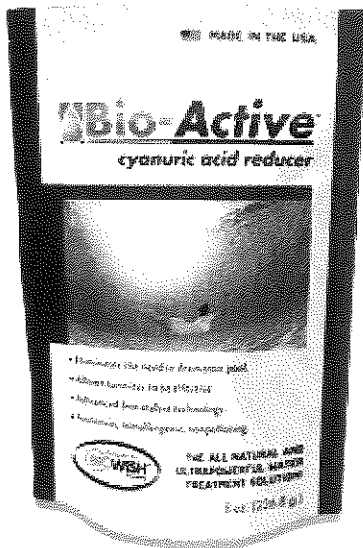
Bio-Active Cyanuric Acid Reducer

## Bio-Active Cyanuric Acid Reducer Customer Reviews

I received and used the Cyanuric Acid Reducer product about a week ago. Instead of draining my pool, I figured I would try this out and save a few hundred dollars. In just 5 days, cyanuric acid levels literally DROPPED from 100 ppm to 50 ppm! This is a great product and I am just so thankful I don't have to waste my time emptying and refilling my pool.

No matter how much chlorine I poured onto my pool it just never seemed to sanitize it. I took a sample to the local pool store and found that the levels of cyanuric acid were so high that it was not allowing for chlorine to do its stuff. Then my neighbor told me about a new product by Bio-Active which claimed to drop cyanuric acid levels. I figured I'd try it, and if it doesn't work then it doesn't work but if it does then hooray!!! Guess what, I tried it and it worked. The Cyanuric Acid Reducer actually managed to lower the levels of CYA from over 200 to 120! It wasn't long after where I was even able to lower the levels of free chlorine to 4 ppm, where they should be. I'd wholeheartedly recommend this product to a friend if they would ever face the same problem.

I'm so thankful that I found Bio-Active's new Cyanuric Acid Reducer product! Seven years ago I had to completely drain my pool since conditioner levels were so high; I was required to spend over \$600 for pump out and replacement water & sewage charges. When my pool guy told me that conditioner levels were too high again I was about to break down crying. Fortunately my pool guy suggested that I use this new product that supposedly lowered conditioner levels. I tried it and all I have to say is WOW! Within a week, levels were cut down to half and within respectable levels. I am very impressed and I wished this product had come out sooner so I would not have had to spend so much money. Thanks Bio-Active!



Bio-Active Cyanuric Acid Reducer

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<p><b>VIEW DETAILS</b></p>

## Technical Data Sheet

### PRODUCT NAME

Bio-Active™ Cyanuric Acid Reducer

### CHEMICAL COMPOSITION

Active microbial cultures (Biosafety Level 1).....	0.1%-1.0% (nominal)
Dextrose.....	95.0%-99.0%
Total.....	100%*

\*Exact percentage (concentration) of composition has been withheld as a trade secret.

### PRODUCT USAGE

Suitable for use in commercial and residential pools with cyanuric acid levels over 100 ppm (parts per million), Bio-Active™ Cyanuric Acid Reducer works to reduce cyanuric acid levels, thereby maintaining the efficacy of chlorine and other sanitizing products.

### PRODUCT ORIGIN

Distributed in USA by:  
Bio-Active Products, Inc.  
42210 Roick Road #10  
Temecula, CA 92590

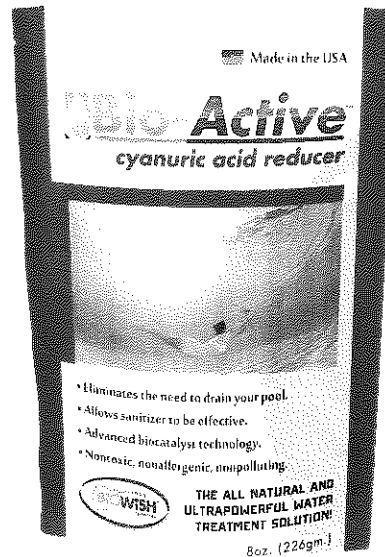
Made in USA by:  
BiOWiSH Technologies, Inc.  
2724 Erie Avenue, Suite B  
Cincinnati, OH 45208

### PHYSICAL/CHEMICAL PROPERTIES

COLOR: Off white  
ODOR: Mildly sweet, earthy odor  
pH: 5.19 S.U.  
SPECIFIC GRAVITY: 0.71  
SOLUBILITY: Dispersible in water  
PHYSICAL STATE: Powder

### PRODUCT FORMAT

390002 – 225g / 8oz.  
390005 – 450g / 16oz.



Made in USA

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## PRODUCT BENEFITS

- No need to drain your pool due to high cyanuric acid.
- Eliminates chlorine lock due to high cyanuric acid
- Allows sanitizer to be effective.
- Will not hinder the chemistry or clarity of the pool.
- Compatible in salt or fresh water pools.
- Nontoxic, non-allergenic, non-polluting.
- Environmentally safe and bio-degradable.

## PRODUCT DOSING

Pour the contents of this pouch directly into the skimmer while the pump is running. Continue running the pump for four hours. Thereafter run the pump at least 4 hours per day for the next week. If your pool does not have a skimmer, premix the contents of the pouch with 5 gallons of water, allow the contents to dissolve, and distribute the mix water into the pool. Run the pump as previously directed. The product will operate for up to 10 days. For detailed usage and testing instructions see [www.bioactivenow.com](http://www.bioactivenow.com)

## STORAGE AND HANDLING

The product is sold in food grade metallized polyethylene bonded film bags and has a three-year shelf life (when stored in a dry place away from direct sunlight).

## SAFETY

The product is non-toxic and safe for everyday use. To download Safety Data Sheet, Hazards Identification and First Aid Information, go to [www.bioactivenow.com](http://www.bioactivenow.com)

## NOTICE

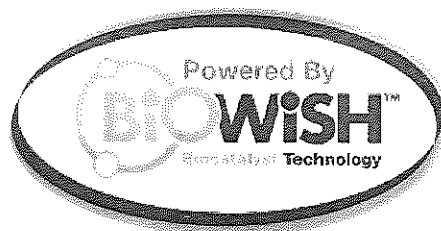
Ineffectiveness or other unintended consequences may result from, but are not limited to, product misuse or management practices. All such risks shall be assumed by Buyer and User.

## COMPATIBILITY

Bio-Active™ Cyanuric Acid Reducer will not operate effectively in the presence of high concentrations of some chemical products such as chlorine above 5ppm. Full effect will not occur until chlorine is at this level or below. The ideal water temperature range for use is 65° F to 105° F (18°C to 41°C). Please contact Bio-Active Products, Inc. for site specific compatibility information.

## CONTACT

Bio-Active Products, Inc.  
[www.bioactivenow.com](http://www.bioactivenow.com)  
[info@bioactivenow.com](mailto:info@bioactivenow.com)  
+1 866 765 2704



Version 2.0  
07.09.2015





## Frequently Asked Questions

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**The All Natural  
And Ultra Powerful  
Water Treatment  
Solution.**

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### Cyanuric Acid Reducer

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- How much product would I need if my pool is more than the 25,000 gallon treatment quantity and how can I determine the reduction amount that I would expect to see from applying multiple pouches?
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- I tested for Cyanuric Acid using my test kit but still show levels over 100 ppm. Is Bio-Active not working?
- What is a dilution test and how do I conduct it?
- I have a plaster pool – What is the effect of CYA in plaster pools?
- Is there anything else to know when testing CYA levels?

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#### General Product Information

Q: What is Bio-Active™?

A: Bio-Active™ is an all-natural composite biocatalyst technology that treats swimming pool water. Please visit our [about](#) page for more information.

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Q: What's the difference between other microbial or enzyme based products and Bio-Active™?

A: The differences are many! Most other commercially available microbial or enzyme products are based on single active components. Often these products have a short shelf life and must be used upon a timely manner. Additionally, a large amount of product (normally in liquid form) is required and the cost-per-ounce is relatively high. Bio-Active™ is powder based and has a three-year shelf life from the date of manufacture. This allows the versatility to be used anytime within that time frame as long as stored as recommended. Another important difference is that Bio-Active™ is compatible to be used alongside most sanitizers simultaneously while other microbial products are often not compatible with pool water conditions.

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Q: How do I apply Bio-Active™?

A: Application is a simple matter of pouring the required dosage onto the skimmer and running the pool pump for a few hours afterward. If tablets are applied onto the skimmer, remove the skimmer basket with the tablets on it prior to application of the Bio-Active™ product and re insert the basket. If

no skimmer is available then pour the required dosage in a 5 gallon bucket of water, mix thoroughly, and broadcast the mixture throughout the outer edge of the pool. Please refer to the instructions of the product to learn what dosage quantity is necessary according to your pool size.

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**Q: Is Bio-Active™ safe?**

**A: Yes, Bio-Active™ consists of natural ingredients known to be nonhazardous. There is absolutely NOTHING found in Bio-Active™ that is toxic or a pollutant and there are no known allergens in the product. Exposure on the skin or anywhere on the body will cause no harm as the product can simply be dusted or washed off. Because of this, there is no toxic danger of over-dosing your pool with Bio-Active™ products.**

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**Q: How long will Bio-Active™ work in my pool?**

**A: In most instances you can see results within the first 24 hours, but the product will continue to show results up to the tenth day after application. Please refer to the directions of your product for any additional information.**

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**Q: How soon can swimmers enter the pool after applying Bio-Active™?**

**A: It is recommended that the pool water be circulated through the pump completely to allow for Bio-Active™ to occupy the entire body of water. Once this is done then swimmers are free to enter the pool. There are no known safety precautions to be aware of.**

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**Q: What temperature does my water need to be for Bio-Active™ to work?**

**A: It is best for your pool to be over 65° Fahrenheit (18.3° Celsius) for Bio-Active™ to perform as intended. It can still perform below this temperature, albeit at a much slower pace. The product will cease to perform at all if the water is below 35° Fahrenheit (1.7° Celsius) or above 140° Fahrenheit (60° Celsius).**

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**Q: Would high concentration of chlorine in the pool, from chlorine shock for instance, degrade performance of Bio-Active™?**

**A: Chlorine concentration of around 5 ppm would begin degrading performance of Bio-Active™, any concentration below that would not interfere with performance.**

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**Q: Would the presence of any chemical hinder performance of Bio-Active™?**

**A: If the pool has been treated with products that contain copper sulfate, potassium monopersulfate, zinc sulfate, or similar then it may be likely that Bio-Active™ may not yield a result after pool dosing. Prevent using this product for at least a week prior to and during dosage period.**

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**Q: Can I use Bio-Active™ products on my fish pond, koi pond, or in any body of water with living creatures in it?**

**A: Absolutely! Bio-Active™ is one of the few products available that can be used to treat fish or koi pond water without finding adverse effects which can hurt aquatic life.**

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**Q: Will Bio-Active™ damage my pool or clog my filter?**

**A: Bio-Active™ will not damage your pool in any way or clog your filter.**



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**Q: What will NOT allow my Bio-Active™ to work in the pool as intended?**

**A: The product will perform slowly at 65° Fahrenheit (18.3° Celsius) and will cease to perform at all if the water is below 35° Fahrenheit (1.7° Celsius) or above 140° Fahrenheit (60° Celsius). Chlorine levels above 5 ppm will not allow for Bio-Active™ to perform as intended as well.**

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**Q: Will Bio-Active™ work in salt water or fresh water systems?**

**A: Bio-Active™ is fully compatible in salt water and fresh water systems alike. There is no notable performance difference when Bio-Active™ is applied between the two.**

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**Q: What happens to the Bio-Active, does it accumulate in my pool?**

**A: Bio-Active™ is 100% biodegradable and after its active phase ceases the product will naturally breakdown into harmless natural compounds that are recycled in nature.**

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### Cyanuric Acid Reducer

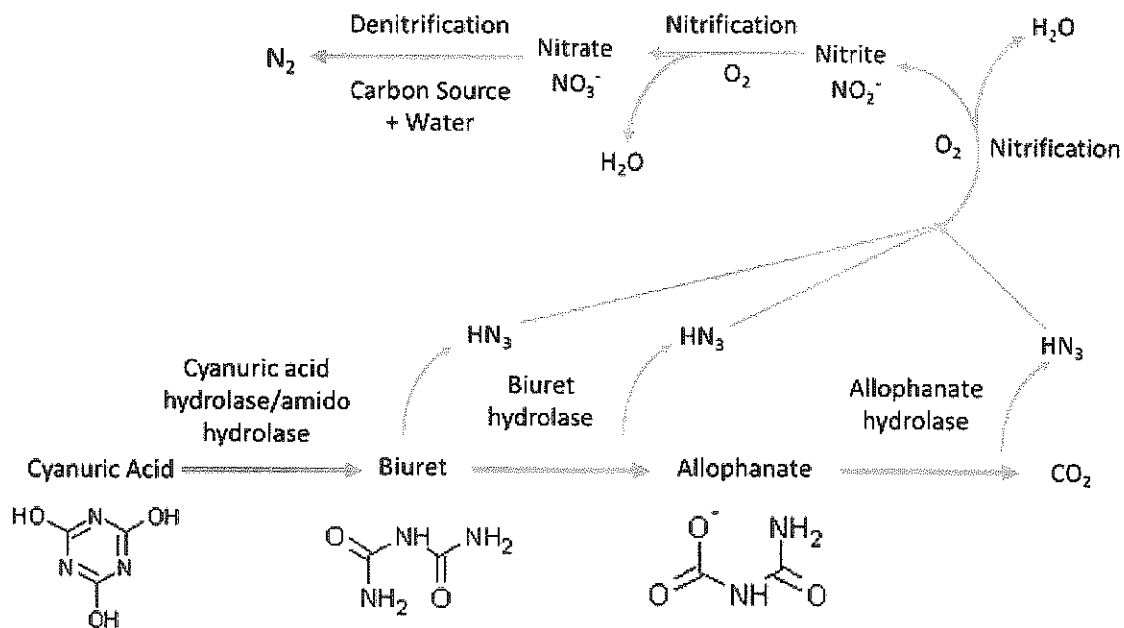
**Q: There have been many products in the market that claim to reduce Cyanuric Acid but have never really worked, how is Bio-Active™ any different?**

**A: Bio-Active™ works naturally at the molecular level to actually separate the elements that make up the composition of Cyanuric Acid. The result is the decomposition of Cyanuric Acid and the eventual reduction of Cyanuric Acid levels in your swimming pool. This is the same process that occurs naturally to cyanuric acid just on a very accelerated timescale. Using a unique feedback loop, Bio-Active™ will reduce Cyanuric Acid levels without removing all stabilizer from the pool where minimum recommended sanitizer is present. In typical applications, Cyanuric Acid levels are reduced to within the recommended target levels.**

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**Q: How does Bio-Active™ work in reducing Cyanuric Acid?**

**A: Bio-Active™ is a biological approach to safely and effectively reducing cyanuric acid levels in swimming pools. Using powerful catalysts, Bio-Active simply accelerates the natural pathways of degradation for cyanuric acid, resulting in harmless end products such as carbon dioxide, nitrogen gas and water that are returned to nature as shown in the diagram below:**

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**Q:** Will the process of reducing Cyanuric Acid leave any residual debris?

**A:** No, Bio-Active™ is designed to immediately dissipate in water when poured in the skimmer. The product may clump or gather at first but will eventually blend in with the water over a short period of time.

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**Q:** Will Bio-Active™ affect my pool chemistry in any way?

**A:** Tests have shown that Bio-Active™ in the pool will NOT interact or affect pH, alkalinity, calcium or water hardness. The product, however WILL indirectly affect chlorine levels: as Cyanuric Acid levels are reduced, the availability of free chlorine will rise.

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**Q:** Will I need to re-apply Cyanuric Acid to stabilize my chlorine after using Bio-Active?

**A:** Bio-Active™ has been designed with a natural feedback loop that in most cases where there is adequate sanitizer levels present in the water, Bio-Active™ will reduce Cyanuric Acid levels down to recommended safe levels and then stop working. So in most instances, it may not be necessary to add additional Cyanuric Acid after treatment.

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**Q:** Can I overdose my pool with Bio-Active™?

**A:** Due to the natural feedback system mentioned above there is no risk of overdosing. There are no other known negatives of overdosing.

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**Q:** The chlorine in my pool is mostly locked up by high Cyanuric Acid and cannot sanitize, could Bio-Active™ alleviate this?

**A:** Yes! As Bio-Active™ reduces Cyanuric Acid levels; the chlorine in your pool that is otherwise bound will be freed up and become functional in sanitizing pool water. Note that you may see a rise in the levels of Free Chlorine even though no additional chlorine is added.

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**Q:** How much of a reduction of Cyanuric Acid should I expect to see?

**A:** For pools that are 25,000 gallons or less and have Cyanuric Acid levels at 200 ppm or less, one 8

ounce pouch may reduce levels of Cyanuric Acid down to 40 - 60 ppm. This is possible because Bio-Active™ has been designed with a natural feedback loop, where there is adequate sanitizer levels present in the water, Bio-Active™ will reduce Cyanuric Acid levels down to recommended safe levels and then stop working. Pools with Cyanuric Acid levels of 200 ppm or more may require a dosage of more than one pouch of Bio-Active™. In such cases, simply measure your Cyanuric Acid levels 7 days after the initial treatment and apply another treatment to get the required reduction.

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**Q:** What steps need to be taken or what do I need to be aware of before and after applying Bio-Active™?

**A:** There are few conditions that need to be met so that Bio-Active™ may be applied. Pool water temperature range for application is 65° and 140° Fahrenheit (18° to 60° Celsius). Chlorine should be below 5 ppm with 2-3 ppm being ideal at the time of and for the week following application. It is highly recommended that the pool be within these ranges so the best results can be reached. Once Bio-Active™ is applied according to instructions, it must be allowed to circulate throughout the pool so it may occupy the entire body of water.

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**Q:** I applied one pouch of Bio-Active™ and saw the reduction of Cyanuric Acid levels I was expecting, but still need more of a reduction, what can I do now?

**A:** You may still apply more Bio-Active™ Cyanuric Acid Reducer incrementally to reach the amount of reduction you desire. It is recommended you measure your Cyanuric Acid levels 7 days after the initial treatment. If required another dosage of product may be applied.

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**Q:** The amount of Cyanuric Acid that needs to be reduced in my pool is less than what Bio-Active™ is capable of reducing, could I simply reduce the dosage of Bio-Active™ to conform to the reduction I want?

**A:** It is recommended that the entire contents of Bio-Active™ be applied onto the pool for best results. As long as you have adequate sanitizer levels in the pool the natural feed back loop will prevent Bio-Active™ from reducing your Cyanuric Acid levels below the recommended safe range. If your pool ends up having less Cyanuric Acid than desired then you may simply add more to balance out your pool chemistry.

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**Q:** If I need to apply more than one pouch of Bio-Active™, am I better off applying all product at once or just one every few hours/days/etc.?

**A:** It is recommended that you apply all necessary dosages at once for maximum effect, so it is recommended that you estimate how much of a dosage your pool will need by determining exact levels of Cyanuric Acid to the amount of gallons being treated prior to applying the dosage.

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**Q:** How much product would I need if my pool is more than the 25,000 gallon treatment quantity and how can I determine the reduction amount that I would expect to see from applying multiple pouches?

**A:** First, determine the quantity of water that will be treated in your pool. Second, divide that amount by 25,000 gallons. The resulting number will represent the quantity of 8oz pouches you will need. The natural feedback loop and functionality of Bio-Active™ will still be valid even if pool size and product dosage is increased.

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**Q:** I applied Bio-Active™ in my pool but it appears to have stopped reducing Cyanuric Acid after a few days (or a few hours) of functioning, what's going on?

**A:** One of three things may be happening: pool temperatures or chlorine levels may be outside of the acceptable range for application, insufficient quantities of Bio-Active™ are in the pool for treatment, or the testing kit may be compromised. Pool water temperature range for application is 65° and 140°

Fahrenheit (18° to 60° Celsius). Chlorine should be below 5 ppm with 2-3 ppm being ideal at the time of and for the week following application. It is highly recommended that the pool be within these ranges so the best results can be reached, so it may be possible that an ideal result has not been reached because the pool is outside these ranges. It is also important to ensure that the entire contents of product be applied onto the pool to achieve results as well as to ensure that Bio-Active™ be thoroughly mixed throughout the entire body of water for full effect. Ensure it is a fresh and unopened package prior to use to ensure efficacy. Additionally, if the pool experiences significant water loss due to drainage or swimmers splashing out water during the treatment process, it may be possible that Bio-Active™ could be lost and performance could be reduced. If you are experiencing a lack of performance and still have inquiries after consulting these guidelines, feel free to contact us.

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**Q:** I tested for Cyanuric Acid using my test kit but still show levels over 100 ppm. Is Bio-Active not working?

**A:** Most test kits that check for Cyanuric Acid are limited to showing results only at 100 ppm or less, so if the pool has levels approaching 150, 200, 250 ppm or more, most test may STILL only yield a result of 100 ppm. If this is the case and Bio-Active™ is applied in a pool, it is likely that a reduction was achieved but there is no way the test kit could measure that reduction. We recommend that you test your pool using a vial & reagent test kit and if you see Cyanuric Acid readings at 100 ppm or more, perform a dilution test to determine the exact reading of Cyanuric Acid in your pool. This is why it is important to get an exact reading of Cyanuric Acid levels in your pool before treatment.

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**Q:** What is a dilution test and how do I conduct it?

**A:** It is important to get an exact reading of Cyanuric Acid levels in your pool before treatment, so we recommend that you test your pool using a vial & reagent test kit. If you see Cyanuric Acid readings at 100 ppm or more while testing, perform a dilution test to determine the exact reading of Cyanuric Acid in your pool. To do this simply mix the test water with half pool water and half fresh water (tap water would be ok), and test again. If the reading falls 50%, the first test can then be considered accurate. If the reading is still above 100 ppm, dilute the pool water/fresh water mix with an equal part of fresh water and test again. This reading should be multiplied by 4 to determine the accurate level of Cyanuric Acid in your pool. If you have any questions or concerns then feel free to contact us.

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**Q:** I have a plaster pool – What is the effect of CYA in plaster pools?

**A:** Multiple studies have now confirmed that CYA levels over 100ppm is damaging to pool plaster surfaces. If pool water has elevated CYA levels for extended periods of time the plaster surfaces are degraded and become porous and often abrasive to the touch. This is a key reason why it is important to manage CYA levels in plaster surfaced pools. In pools with porous plaster surfaces CYA can become immobilized in the plaster and when Bio-Active™ is first applied this CYA is released back into the water. For this reason starting levels of CYA in these pools is often under reported on testing and can be much higher than the pool owner realizes. Very high starting levels of CYA can require multiple treatments with Bio-Active™ to bring CYA levels down to the safe range.

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**Q:** Is there anything else to know when testing CYA levels?

**A:** Cyanuric Acid can dry inside your test equipment with repeated use and when testing water with Bio-Active™ present this can release the dried Cyanuric Acid providing false high readings. We recommend that you thoroughly scrub and flush your test equipment after every test and prior to re-testing to ensure you are obtaining accurate measurements.

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