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Sent: Tuesday, December 30, 2003 3:34 PM

Subject: FORUM Q & A UPDATE: WHAT ARE CHLORAMINES ?

Dear Aquathin Dealer OnLine, Splash NewsBulletin and Allergic Reaction NewsBulletin Members;

In May of 2002, we sent a Forum Q & A concerning the municipal water germicide called "chloramines" (attached below for convenience) and some of the issues it presents. The following quick read asserts these several cautions we pointed out, as they turn on chloramines in San Francisco. I love my Aquathin !

Warmest regards to all...as well, your comments are always welcome and very much appreciated.

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Market Updates - 12/30/2003 11:58:37 AM

Water district spreads the word about chloramines switch

HAYWARD, CA — The San Francisco Public Utilities Commission will switch its disinfectant for tap water from chlorine to chloramine effective Feb. 1, and is notifying residents in local communities who might be affected by the change, such as dialysis patients and pet fish owners, [The Alameda Times-Star](#) reported.

Chloramine, which is a combination of chlorine and ammonia, generally lasts longer in water and produces lower levels of suspected cancer-causing byproducts than chlorine, the article said.

However, the article also reported that while water disinfected with chloramine is safe for human and animal consumption and for use in cooking and bathing, **it may be deadly if it enters directly into the bloodstream, such as through kidney dialysis.**

It could also affect pets such as fish, reptiles and amphibians and businesses using highly processed water, the article said

The state Department of Health Services will be inspecting and certifying all kidney dialysis facilities once they have been upgraded to remove all chloramines, according to the paper.

Sent: Thursday, May 09, 2002 5:10 PM

Subject: FORUM Q & A: WHAT ARE CHLORAMINES ?

Dear Aquathin Dealer OnLine, Splash and Allergic Reaction NewsBulletinMembers;

In the past few months, we have received many calls from Dealers and consumers located in cities where municipal water plants are turning to chloramines. We have lived with chloramines in South Florida for a number of years and it is not fun.

Lets begin with why chloramines? As many of you have learned at Aquathin University, chlorine added to city water for germicidal protection had been a very good thing for many many years. It is the chlorine that knocked out typhus and acts as an oxidizer to eliminate bacteria, virus, algae and many odors. Chlorine is cheap, effective, readily available and often a byproduct of manufacturing processes. However, chlorine is not very stable and likes to combine with other contaminates in water often forming carcinogens (cancer causing compounds). Chlorine combining with organic matter i.e. decayed vegetation, forms THM's or trihalomethane which is a carcinogen. And since the second industrial revolution chemical contaminates have been introduced into drinking water (over 700 found in U.S. waters), chlorine has managed to combine with many of these pollutants making extremely toxic substances. The American Journal of Public Health has reported that these organochloride compounds cause colorectal and prostate cancers.

Hence in order to obtain the safe germicidal benefits from chlorine a process was developed and tested by the E.P.A. and A.W.W.A. (American Water Works Association) whereby chlorine could be combined with a material at the initiation of the chlorine, forming an effective germicide unable to combine with any other matter or creating carcinogens. The most effective and least costly choice was ammonia (NH₃). The combination of chlorine (Cl₂) and ammonia forms chloramines.

Chloramines while efficient, are not as efficient as free chlorine and therefore must be used in stronger concentrations. State standard for free chlorine residual is .5 ppm . Experience shows that an average is around 1.0 ppm . Chloramine concentrations average 3.0 to as high as 4.5 reported by several Dealers. As well, when using chloramines, pH will rise on average 8.0 to 8.5 (normal average is 6.8 to 7.2). We have reports that pH is as high as 10.5 . When pH exceeds 7.2 calcium and magnesium will come out of solution and you will see increased spotting of dishes, glasses, flatware...scaling in showers and baths, even in areas where hardness is normally not a big problem. The biggie is chloraminated water is quite irritating to many people causing rashes, chaffing...it has been reported that respiratory problems have been associated with chloramines. When your area changes to chloramines, you will see the water in your baths and toilets turn to a yellow color...before you've used it ! You will receive a notice that chloramines will kill tropical fish and are devastating to dialysis patients. Chloramines must be prevented from use in clinical and home hemodialysis machines. Chloramines will also eat at your toilet flappers and rubber plumbing gaskets causing leaks. Additionally, since chloramines are not as

effective as free chlorine, the municipalities will turn it off periodically i.e. every 6 months or so, and run high concentrations of free chlorine into the pipes to shock any presence of biofilm (bacterial slime).

What you can do. Many years ago Aquathin developed the MegaChar Filter Model BFF-1 total home point of entry filter out of a growing concern for bathing and breathing chlorine and organic pollutants in showers and baths. This consisted of the highest quality and quantity of steam washed bituminous grade granular activated carbon for reduction of chlorine and chemicals. When South Florida (which is one of the first areas) switched to chloramines, we learned that the higher pH caused a drop in efficiency (carbon does not like to remove organics and chlorine under increased pH environments) along with earlier media changes than we had historically known. After several months of research and consulting with our carbon engineers, we began to produce the Model BFF-2 MegaChar which includes an acid washed lignite grade granular activated carbon. The acid washed type of carbon and quantity engineered into the MegaChar permitted it to act more efficiently by reducing the pH. Aquathin has been successfully removing chloramines with this quality filter for over 12 years now and everyone...and I mean everyone reports that they love their MegaChar just as much as their RODI systems (which also removes chloramines as you know). Water in baths and toilets remains clear. No more annual replacement of toilet flappers and rubber gaskets (as long as the BFF-2 is inspected and maintained).

Chlorine and chloramines as we teach in Aquathin University are good, good, good...from the municipal plant, keeping the pipes clean and germ free all the way up to your home. However, if you believe like we believe at Aquathin, we have a choice and can enhance the quality of our water entering into our home. I have a MegaChar and my family loves it.

Warmest regards to all,

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Sent: Thursday, November 20, 2003 12:00 PM

Subject: FORUM Q & A UPDATE: WHAT IS A RADIONUCLIDE AND HOW DO I TREAT IT?

Dear Aquathin Dealer OnLine;

WOW, TALK ABOUT TIMELY! Please review the quick read below concerning the **proposed lawful dumping of radionuclides into local landfills**. I have pasted at the bottom, the Forum Q & A of Radionuclides sent earlier this week for immediate reference.

SPECIAL NOTE TO ALL INTERNATIONAL DEALERS: It is extremely interesting that Germany recently dealt with their nuclear waste issue in a wholly different manner. Germany elected to shut down all nuclear power plants by 2010 and stop the creation of radioactive waste that would be around for hundreds of years. However, if the U.S. is going to proceed with this legalized dumping here, expect most other nuclear powered countries to follow.

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Warmest regards to all...as well, your comments are always welcome and very much appreciated.

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EPA proposes deregulating disposal of low-level radioactive waste

EPA issued an Advance Notice of Proposed Rulemaking Nov. 18 seeking comments on the possibility of allowing low-activity radioactive waste to be disposed of at hazardous waste sites or ordinary solid waste landfills.

First on EPA's agenda is low-activity mixed waste, which is both chemically hazardous under the Resource Conservation and Recovery Act and radioactive with low radionuclide concentrations under the purview of the Atomic Energy Act of 1954.

"Such waste is regulated and managed under both authorities, but under certain conditions, one authority may be sufficient to provide public health and environmental protection," the agency states in its notice.

EPA notes that it is also seeking comments on possible regulatory and nonregulatory options for simplifying the management of other, nonmixed radioactive wastes with relatively low concentrations of radioactivity.

A coalition of environmental organizations, including the Nuclear Policy Research Institute, the Nuclear Information and Resource Service, Sierra Club and Public Citizen, has sent a letter to EPA Administrator Mike Leavitt voicing its opposition to the potential rule change.

"The nuclear industry knows that in order to prolong its existence, it must deal with nuclear waste and it must do so at a minimal cost," said David Ritter, policy analyst with Public Citizen's Critical Mass Energy & Environment Program. **"The EPA is now helping to prop up the industry, at the expense of public health, by paving the way for tons of nuclear waste to be dumped in facilities that were not designed for, nor capable of containing, these dangerous radionuclides."**

The *Federal Register* notice, including information on submitting comments, is available online at <http://www.epa.gov/fedrgstr/EPA-WASTE/2003/November/Day-18/f28651.htm>

Sent: Monday, November 17, 2003 5:45 PM
Subject: FORUM Q & A: WHAT IS A RADIONUCLIDE AND HOW DO I TREAT IT?

Dear Aquathin Dealer OnLine;

Below you will see a quick read regarding the growing concerns for "**radionuclides**". Today, most states in the New England and Midwest regions mandate well water tests for radionuclides (along with nitrates...and the usual roof and termite inspections), and if present, the seller of a home must install treatment before the buyer is granted a mortgage. You can readily see how important it is to network with real estate agents. Please do not think this problem is isolated to the aforementioned regions....there's plenty in Europe and other areas. Radium for example was thought to be isolated to sites where deep granite and basalt formations exist. However, its been located even in the sandy coral structures here in Florida.

A radionuclide is any manmade isotope or natural element that emits radiation with an unstable nucleus that spontaneously decays or disintegrates, producing radiation. They may also be termed as alpha, beta, photon, or gamma ray emitters and include radon, uranium, radium-226, radium-228, polonium, actinium, lead (Pb-212), thorium, strontium and measured in picoCuries per litre (pCi/L). One picoCurie equals approximately one disintegration every 27 seconds per litre of water.

Gross alpha particle contamination has an MCL (Maximum Contaminate Level) of 15 pCi/L but does not include activity from uranium or radon. When testing water, a lab must supply you with exact sources of contamination to best prescribe treatment.

Radium-226, 228 and strontium (5pCi/L MCL combined) can be reduced via your Aquathin Soft and Clean Water Conditioners for Point of Entry treatment. Your Patented Aquathin RODI Process removes it for POU. Uranium (30ppb MCL) can be reduced POE by utilizing a specific anion resin that regenerates with the chloride side of the salt (similar to tannin and nitrate resin). Radon (300pCi/L MCLG...proposed goal) is a gas reduced at POE via your Aquathin MegaChar. Beta particles (4 mrems / year MCL...millirems per year is a measurement of radiation sustained within the human body) is removed by the Patented Aquathin RODI Process.

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Warmest regards to all...as well, your comments are always welcome and very much appreciated.

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Environment - 10/16/2003 12:07:43 PM

Drinking water tests positive for radionuclides

PARK HILLS, MO — Water tests conducted by both the Missouri Department of Natural Resources (DNR) and Metropolitan Engineering and Surveying show higher than acceptable levels of radionuclides in an area water well, the [*Daily Journal*](#) reported.

Despite the high levels of radionuclides, Kenny Duzan, of the Missouri Department of Natural Resources, has cautioned the citizens of Desloge not to panic.

"If you're drinking water at two to three times the maximum contamination level the risk is still very slim that it will lead to cancer," Duzan said in the article. "However, we still regulate it at those levels and if the levels remain high at the well we will require the city to treat the water."

The DNR official, who is with the public drinking water program, recommended water softeners for the 10,000-plus residents of the area, and stated that they will remove at least 90 percent of the radioactive contaminants.

The DNR will continue to test the water quarterly at the Desloge well for a year to see if the levels remain consistently high. If they do, the city of Park Hills, current provider of water to Desloge, will be required to make a public statement to the consumers of the water, outlining the risks involved in consumption. The city will then be forced to treat the water to bring the levels under the threshold specified by the EPA, the paper reported.

Sent: Wednesday, November 12, 2003 2:58 PM

Subject: FORUM Q & A UPDATE: WHAT'S UP WITH OXYGENATED WATER ?

Dear Aquathin Dealer OnLine;

Here's one for the "I Told You So" column. On June 17, 2002, I sent you a Forum Q & A (pasted below for your convenience) concerning the 'hyperventilated claims' made by the 'marketeers' of oxygenated bottled water. Enjoy the quick read below from the Journal of the American Medical Association.

Please reprint this message for your Sales Team to have on hand when anyone asks about this 'puffery'.

Warmest regards to all...as well, your comments are always welcome and very much appreciated.

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Bottled Water - 11/12/2003 11:54:49 AM

Medical journal: Bottled water's added oxygen not healthier

SEATTLE — A study published in the *Journal of the American Medical Association* (JAMA) has found that each of the five brands of oxygenated water the researchers tested contained less oxygen in 12 ounces than is contained in a single human breath, [The Seattle Times](#) reported.

The study was conducted by researchers at Seattle's Virginia Mason Medical Center and at Duke University in North Carolina. Testing 11 adults, they also found "no significant differences in exercise results" based on whether the person drank oxygenated bottled water or ordinary tap water, the article stated.

Two Northwest producers of oxygenated water responded to the study in different ways. A spokeswoman for Talking Rain,

of Preston, WA, said the company makes no health claims for its product, called airwater, while Aqua Rush, of Coeur d'Alene, ID, told the paper that its oxygen-infusing technique gives its product a higher level of "stable" oxygen than any others.

The researchers would not identify any of the five brands they tested, nor whether either of the Northwest brands was included in the study, according to the paper.

----- Original Message -----

Sent: Monday, June 17, 2002 10:08 AM

Subject: FORUM Q & A: WHAT'S UP WITH OXYGENATED WATER ?

Dear Aquathin Dealer OnLine;

One of the newest "fads" to hit the industry is bottled water with oxygen added called "oxygenated water" (Note I did not capitalize the O and W to lend credence and was even reluctant to use the " " !).

The providers make very nebulous general claims i.e. athletes perform better. Even if oxygenated water had any benefit, it would have dissipated by the time it reached you and / or the cap was opened similar to H₂S. And surely any attempt to make coffee, tea or to cook with would get rid of any excess gases.

One could never get any definitive result of oxygenated water because we are not built to get any definitive result through ingestion. The only way to get any definitive result is to sprout gills. And said conversely, if oxygenated water did increase the oxygen uptake, that must mean anyone who drinks 3-4 sodas a day would be suffocating from the CO₂ carbon dioxide bubbles !

The testimonials of enhanced well being promoted by the sellers of oxygenated water, are more likely due the benefits received from better hydration due to increased water consumption and / or substituting copious quantities of water for whatever one had been drinking i.e. sodas, coffee, alcohol.

SO WHAT'S THE REAL BENEFIT----Increased public awareness for another alternative to tap water which grows the market. When the user realizes the contents of the bottle are not what they expected, the user does not go back to the tap....they will change bottled waters or hit the Yellow Pages for a water treatment professional.

Have a great week and warmest regards to all,

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