



February 27, 2008

# tideline aquatics Newsletter

## Tideline Aquatics Store Hours

Monday – Friday 11am-7pm  
Saturday 10am-6pm  
Sundays 1pm-5pm

### TREATING YOUR FISH FOR PARASITES PROPERLY

Aquarium fish, just like any other pet, can develop disease. Prompt and proper treatment can save you the loss of your prized aquatic pets. Too often, a hobbyist notices something wrong with their fish, heads to Walmart and purchases some remedy promising the cure for all aquarium fish. This most often results in the loss of your aquarium inhabitants. Here we will cover some of the most common disease occurrences in the fresh and saltwater aquarium.

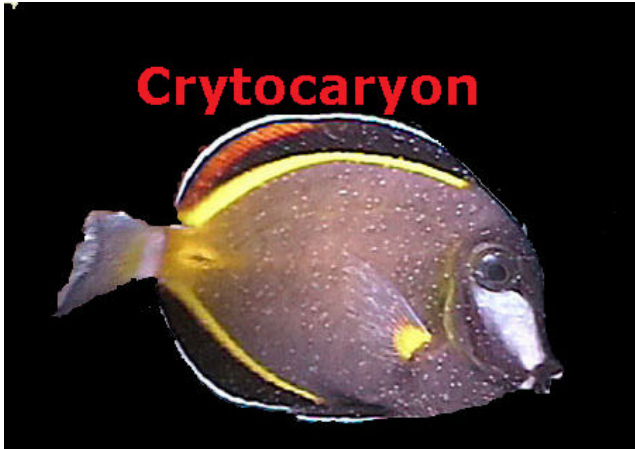
#### **Freshwater Ich (Ichthyophthirius multifiliis) –**



The protozoan that causes this disease is the most common loss of fish yet the most preventable and treatable disease a freshwater hobbyist will encounter. Often referred to as “white spot”, this parasite appears on your fish as tiny white spots on the fish’s fins and skin. The most common

cause of this parasite disease is from fluctuating water temperatures from not having an aquarium heater or from a malfunctioning or incorrectly set aquarium heater. It can also be brought in on new fish or develop when a new fish becomes stressed. There are MANY treatments available but we have found a couple of remedies that work best for us when we encounter this disease at the store, Quick Cure or Proform C. Both products use similar chemicals. Regardless of which product you use, first you should remove the activated carbon from the filter. If you use a UV sterilizer on your aquarium, unplug it during the treatment duration. If your aquarium contains no tetras, loaches, black ghost knives or elephant nose, you can use it at full strength per the instructions. If you do have any of the fish listed, then use the product at half strength. If you raise the aquarium temperature to about 82 or 84 degrees, it will speed up the killing of the parasites. You cannot kill the parasite as long as you can see the white spots (cysts) on the fish. When the cysts fall off and release the free-swimming parasites, only then can they be killed. If you diagnose this disease in the early stages, you will likely not lose any fish. If the disease becomes advanced, you may also have to use an antibiotic treatment such as erythromycin or nitrofurazone to treat the secondary bacterial infection that can develop. In most cases, Quick Cure or Proform C will kill the parasites in 5-7 days. Both half way and at the end of the treatment, a 25% partial water change is suggested. New activated carbon should be added after the treatment to remove any remaining medication. Please note: you cannot remove a fish showing spots and expect the rest of the fish to be fine. Though the spots may only show on certain fish, the entire aquarium population is infected!! You must treat the entire aquarium for this parasite – no exceptions!

## Saltwater Ich (*Cryptocaryon irritans*) –



This tiny parasite is the culprit in the loss of many marine fish in the home aquarium. Too often, the early signs are not recognized allowing the parasite to take hold in the aquarium. First it attacks the gills causing the fish to rub or scratch on the bottom and/or decorations. Next, you will see very tiny white spots appear on one or more of your fish. As days pass, more and more of these tiny white spots (cysts) appear on your fish causing rapid gilling, skin damage and then death – often within 7-10 days. This is the most easily treated disease without fish loss if caught early **AND TREATED PROPERLY**. In our 25 years experience, we have found the use of copper to be **THE ONLY RELIABLE TREATMENT!** Other stores and websites may tell you differently but Copper is the only reliable treatment. If you have live rock and/or invertebrates (live corals, anemones, starfish, crustaceans, etc), the fish will need to be treated in a quarantine tank outside the main aquarium or the invertebrates and live rock will need to be moved to a quarantine tank that contains **NO FISH** (eels count) until the treatment is over and the copper is removed. We have tried numerous brands of the “reef safe” and “live rock safe” marine ich treatments and **NONE** have been reliable. Some seem to keep the parasite at bay for a period but **NONE** seem to cure the fish any better than leaving the fish in the aquarium and hoping their immune system can overcome the disease. We only carry these types of treatments at the store because folks just mail order them or get them from another store if we do not stock them. Okay, enough preaching... This disease is often introduced from a stressed new fish, from purchasing fish from an infected holding system and/or from temperature fluctuations due to no

heater or a malfunctioning heater. We have found that Cupramine **or** Copper Power are both excellent copper treatments when used correctly. Cupramine must be kept at .5-.6ppm for 30 days while Copper Power must be kept at 2.5ppm for 30 days. First you must remove the activated carbon from the system. If you use a UV sterilizer, it must be unplugged until **ALL** the copper has been removed after the treatment. Dose the product you choose per the manufacturers instructions for the initial treatment. Then, you must have the copper level tested in your aquarium water every 4-7 days (bring it to the store or purchase **the proper** copper test kit). The copper will kill the parasite **ONLY** if the proper level of copper is maintained through the duration of the treatment. If a lapse occurs, you should count the days of treatment required from that date. The parasite has a life cycle of about 21 days. We suggest treating for 30 days to ensure it has been eradicated. No partial water changes are required during the copper treatment. Once the treatment has ended, you should perform a 25% partial water change; add new activated carbon and polyfilter (a chemical pad for removing copper and more) to remove the copper. Weekly testing will let you know when all the copper has been removed. Only then can the UV be turned back on in the aquarium. As for your live rock and invertebrates still being infected – no worry. Without a host (live fish), the parasite dies out in about 21 days. All copper must be removed before returning invertebrates and/or live rock back to the tank. Though copper can be bound up in the sand bed, we have found that if you wait long enough (about 3-4 weeks but have it tested!!), the copper is all removed from the system. The best chance you can give your fish against this disease is to **ALWAYS** put new fish in a quarantine tank for at least 14 days. If there are no signs of the disease, then most often they can be safely added to your main tank. Acclimate them as if they were a new fish to reduce stress on the fish. We cannot stress this quarantine period enough, especially if you purchase fish from other stores or by mail order though even our fish are best quarantined before adding to your tank. Our fish systems at the store are all treated with copper to prevent outbreaks from new fish shipments.

## **CARIBSEA CONTESTS AND PROMOTIONS!**

They are giving away over \$10,000 in prizes!

Caribsea is now having a photo contest. You merely submit a photo of your aquarium and see if you win! You can enter as many pictures of your aquarium(s) as you like. The winner will be picked by the Caribsea staff and their guest judge, author Anthony Calfo. You will need to go to the following site to download the flier that contains all the details:

[http://caribsea.com/pages/contest/contest\\_flyer.pdf](http://caribsea.com/pages/contest/contest_flyer.pdf)

We will also have fliers printed out for you at the store beginning on Thursday.

### **FREE CARIBSEA SALTWATER!!**

Beginning on Thursday, you will receive a 4.4 gallon container of Caribsea's Natural Seawater **FREE** with the purchase of any Caribsea product!! This includes Purple Up, Dry Marine Aragonite Sand (any type), Live Sand (all types and sizes), etc. This promotion will continue until we run out of FREE Seawater. There is a limit of 1 Free Seawater container per customer per day. This is natural seawater bottled for use in the aquarium by Caribsea.



Also beginning on Thursday, we will be having a huge marine fish and live coral promotion. For **every** marine fish valued at \$25 or more **and/or** for **every** live coral (mushrooms, polyps, live corals) valued at \$25 or more that you purchase, you can choose a **FREE** package of any cubed 3.5oz San Francisco brand frozen food of your choosing. This promotion is valid even for livestock that is purchased with one of our website coupons. There is no coupon required for

this promotion or the Caribsea free seawater promotion!

## **NEW PRODUCTS FOR THE REEF AND MARINE AQUARIUM**

This new product line has been such a hit we ran out of several types in less than a week. For this reason, we are running the website discount coupons for this product line an additional week. We have another shipment arriving any day to restock this excellent new product line.



### **AQUAVITRO – ALPHA**

Removes chlorine, chloramines and ammonia. Converts ammonia into a safe, non-toxic form that is readily utilized by beneficial bacteria and reef inhabitants such as clams. 50% more active than competing water conditioners. Detoxifies nitrite AND nitrate allowing the biofilter to more efficiently remove them. Also promotes the production and regeneration of the natural slime coat on fish.

### **AQUAVITRO – BALANCE**

The see-saw effect when trying to adjust calcium, alkalinity and pH can now be solved. Balance resets the carbonate/bicarbonate ratio by converting bicarbonate into carbonate in order to reassert a higher pH WITHOUT affecting the calcium level.

### **AQUAVITRO – EIGHT.FOUR**

Supplies a properly balanced (carbonate/bicarbonate) buffer system that yields an industry leading pK of 8.6 which makes pH maintenance of 8.3-8.5 easy and stable. Restores disrupted buffer systems and increases carbonate hardness (KH).



### **AQUAVITRO – IONS**

Restores magnesium by employing the most concentrated, fully dissolved magnesium without adding any ammonia as with other magnesium products. Also includes strontium and boron in the correct ratio to avoid ionic imbalance with long term use.

### **AQUAVITRO – CALCIFICATION**

An optimized blend of ionic and bioavailable gluconate-complexed calcium designed to restore and maintain calcium to levels found in natural seawater – without affecting the pH. Prevents calcium precipitation/alkalinity depletion. Contains no nitrogen or phosphorous (nitrates or phosphates).

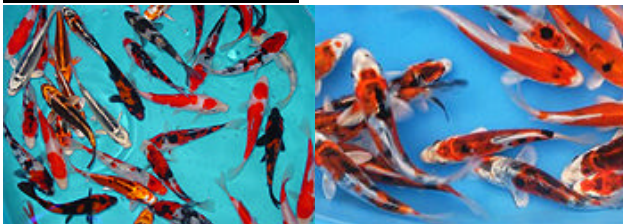
### **AQUAVITRO – VIBRANCE**

A highly concentrated naturally stabilized potassium iodide source for reef aquaria that will restore and maintain iodide levels to those found in natural seawater. The proprietary stabilization process makes VIBRANCE the most stable iodide supplement available.

### **AQUA-VITRO – FUEL**

A comprehensive carbohydrate, vitamin, amino acid, polyunsaturated fatty acid, and trace element supplement developed to address nutritional requirements with corals. Contains ascorbic acid in a base of chlorella (similar to spirulina but more superior) which contains a rich assortment of amino acids and vitamins. Formulated to provide nutrients available from natural seawater.

### **GARDEN POND SEASON IS NEARLY HERE!!**



We have begun to get our pond area behind the store ready for the 2008 Garden Pond Season! With the early warm weather many of you have already been out looking for fish and plants. Because of the risk of frost and just plain cold weather still a possibility, we do not bring in fish or plants until about mid March depending on the

weather. According to our suppliers, Japanese koi will arrive the last week of March. These fish will require a 30 day quarantine period though you are allowed to pick out your fish and we will hold it until they are finished with quarantine. If you choose to take your fish before the quarantine period is complete, you will be required to sign a waiver stating that Tideline Aquatics is not responsible for ANY problems that may arise. We take quarantining of koi seriously and for your good – we do not recommend taking any fish before the quarantine period has expired. Domestic koi should arrive in mid March and will also require a quarantine period of 14-21 days. Water garden plants will be in about mid March as well depending on our weather. Get your pond cleaned up now, your pond water tested and start repotting plants in about a week! See you soon folks....

**For those of you that need new ultraviolet bulbs for your UV clarifiers, we now have a new supplier for these lamps. UV lamps from this company will sell to you for about 25% less than they have in the past! Finally, a price decrease in an aquatic product!!!!!!! New lamps arrive this week!**

### **What's New At Tideline**

#### **FEEDERS (GETTING LOW!):**

Feeder Goldfish (LOW), Feeder Rosy Reds (PLENTY), Feeder Ghost Shrimp (LOW), Feeder Crayfish (PLENTY), Feeder Fiddler Crabs (PLENTY), Feeder Guppies (OUT) & Live Black Worms (LOW).

#### **NEW FRESHWATER FISH:**

**Livebearers** – Male Endler's Livebearers, Red Velvet Swordtails, Assorted Mickey Mouse Platies, Painted Platies (true colors), Assorted Balloon Mollies, Dalmation Mollies, Local Fancy Guppies, Black Yucatan Mollies.

**Catfish/Loaches/Plecostomus** – Angellicus Loaches, Angellicus Synodontis Catfish, Melanistius Corydoras Catfish, Zygatus Corydoras Catfish, Zebra Loaches, Hifin Paleatus Corydoras Catfish, Albino Corydoras Catfish, Gold Nugget Plecostomus, Queen Arabesque Plecostomus, Spiny Redfin Pseudocanthicus Plecostomus, Regular

Plecostomus, Golden Chinese Algae Eaters, Borneo Sucker Loaches, Otocinclus Algae Eaters, Rubber Plecostomus, Red Burmese Loaches, Nice Clown Loaches.

**Brackish** – Monster Size Green Spotted Pufferfish, Small Green Spotted Pufferfish, Anableps anableps, Archerfish, Red Scatophagus.

**Tetras / Rasboras / Barbs / Danios** – Tiger Barbs, Gold Barbs, Cherry Barbs, New Veiltail Cherry Barbs, Fasciatus Melon Barbs, Neon Tetras, Marble Hatchetfish, Black Wing Hatchetfish, Red Serpae Tetras, Large Congo Tetras, Whitefin Rosey Tetras, Black Phantom Tetras, Espei Rasboras, Glolite Tetras, Zebra Danios, Rare Glotlite Rasboras, Pentazona Barbs (very nice).

**Gouramis / Bettas** – Male Bettas, Female Bettas, Dwarf Gouramis, Sunset Thicklip Gouramis, Tank Bred Chocolate Gouramis, Ctenopoma ansorgii African Gouramis, Platinum Gouramis, M/L Kissing Gouramis, Moonlite Gouramis, Blue Gouramis.

**Cichlids** (Dwarf, South American, African) – Assorted S/M Oscars, German Gold Rams, Large Electric Blue Ahli Cichlids, Small Green Terrors, Small and Large Jaguar Cichlids, Kribensis, Geophagus jurupari Eartheaters, Frontosa Cichlids, Julidichromis Cichlids, Assorted Mbuna Small and M/L African Cichlids, Electric Blue Johanii Cichlids, Assorted Peacock Cichlids, Jack Dempseys, Firemouth Cichlids, German Blue Rams.

**Other** – Common Freshwater Stingrays, Large Freshwater Flounders, Black Ghost Knives, Dwarf African Frogs, Albino Clawed Frogs, Orange Japonica Shrimp, Red Cherry Algae Shrimp, Gudgeon Gobies, Denisonii Roseline Sharks, Redtail Black Sharks, Rainbow Sharks, Black Sharks, Bala Sharks, Peacock Eels, Fire Eels, African Ropefish, Jumbo Silver Arowana, Australian Jardini Arowana.

**Goldfish** – (Now in Stock) Celestial Eye Goldfish Mixed, Medium Mixed Chinese Ryukins, Medium Mixed Chinese Orandas, Small Black Moors, Mixed USA Fantails, Lemon Head Orandas.

**Koi, Pond Fish and Pond Plants** – Domestic Koi arrive in two weeks, Japanese Koi arrive the last week of March (we have 240 Japanese koi coming to include: Kohaku, Showa, Sanke, Utsuri, Ogon, Kujaku, Asagi, Shusui, Kumonryu, Kin Ki Utsur, Kikokuryu, Doitsu, Ginrin Goshiki and more!! Water lilies, bog plants and oxygenators are arriving the second week of March. Watch future newsletters for updates on these!!

**Live Aquarium Plants** – Our live plant holding tanks are now full of beautiful aquatic plants for your aquarium. Check them out early for the best selection!!

The list above represents only the most recent livestock shipment. We have MANY other species available at the store!

**SALTWATER FISH: (Note: We just received one of our largest shipments of marine fish and invertebrates we have ever had! The selection and quality is unsurpassed!)**

**Angels / Butterflyfish** – Baby Flame Angelfish, Beautiful Juvenile Emperor Angelfish, XL Potters Angelfish, Bright Purple Fiji Coral Beauty Angelfish, XL Eiblii Angelfish, Awesome Flameback Angelfish, Swallowtail Angelfish, Male Zebra Angelfish, Fiji Lemon Peel Angelfish, Flagfin Angelfish, Australia Scribbled Angelfish, Rainfordi Butterflyfish, Black & White Heniochus, Kleini Butterflyfish, Raccoon Butterflyfish.

**Clownfish** – True Percula Clownfish, African Allardi Clownfish, Ocellaris Clownfish, Brown Saddle Clownfish, Sri Lanka True Sebae Clownfish, Maroon Clownfish.

**Gobies / Blennies** – Algae Blennies, Red Scooter Blenny, African Midas Blennies, Twospot Signal Gobies, Diamond Sifter Gobies, Golden Head Sifter Gobies, Dragon Sifter Gobies, Yashia Goby.

**Wrasses / Hogfish** – Awesome Lyretail Hogfish, Incredible Tripletail Wrasse, Brown Bird Wrasse, Lunare Wrasses, Big Sixline Wrasses, Pair McCosters Fairy Wrasse, Debulius Fairy Wrasse, Balteatus Fairy Wrasse, Yellow Coris Wrasses, Marble Coris Wrasses, Super Christmas Wrasses, Argus Wrasse, Beautiful Quinquevittatum Wrasse.

**Tangs / Rabbitfish** – African Powder Blue Tangs, Powder Brown Tangs, Mimic Yellow Tangs, Hawaiian Yellow Tangs, Nice Clown Tangs, Yellow Eye Kole Tangs, Baby African Yellow Belly Blue Regal Tangs, Blue Regal Tangs, Convict Tangs, Sailfin Tangs, Jumbo Hawaiian Yellow Tang (only 1 and huge), Foxface Rabbitfish.

**Triggerfish / Eels / Puffers** – Medium Niger Triggerfish, Jumbo Niger Triggerfish, Hawaiian Blue Jaw Triggerfish, Hawaiian Pinktail Triggerfish, Clown Triggerfish, Humu Triggerfish (babies), Blueline Fuscus Triggerfish, Dogface Pufferfish, XL Valentini Pufferfish, Snowflake Moray Eels.

**Lionfish** – Hawaiian Red Devil Lionfish, African Black Volitan Lionfish

**Other** – Orbicularis Batfish, Yellow Goatfish, Flame Hawkfish, Vtail Groupers, Royal Grammas, Japanese Susumi Pseudochromis (RARE), Vampire Pseudochromis, Bicolor Pseudochromis, Neon Arabian Pseudochromis, Tank Bred Kelloggii Seahorses, Male Squareback Anthias, Assorted Damsel fish.

#### **INVERTEBRATES:**

**Snails / Cucumbers / Starfish / Urchins** – Orange Linkia Reef Starfish, Green Brittle Starfish, Chocolate Chip Starfish, Red Striped Trochus Snails, Nerite Snails, Small Nassarius Snails, XL Nassarius Snails, Chestnut Turbo Snails, Mexican Turbo Snails.

**Crustaceans** – Cleaner Shrimp, Red Fire Shrimp, Red Pistol Shrimp, Green Pistol Shrimp, Candy Pistol Shrimp, Scarlet Reef Hermits, Cortez Reef Hermits, Left Hand Reef Hermits, Orange Halloween Reef Hermits, Arrow Crabs, Sally Lite Foot Crabs, Hawaiian Pom Pom Crabs, Coral Banded Shrimp.

**Corals / Polyps / Mushrooms** – Assorted Indonesian Mushroom Rocks, Green Indo Ricordea Mushroom Rocks, Assorted Nano Corals (frogspawn, candy caulestrears, leathers, etc), Purple Lemnalia Soft Corals, Green Daisy Polyp Rocks, Green Zoanthid Rocks, Metallic Zoanthid Rocks, Pink Zoanthid Rocks, Orange Zoanthid Rocks, Fiji Green Finger Leather Corals, Gold Ultra Spaghetti Leather Corals, Fiji Toadstool Leather Corals, Astreopora Corals, Purple Encrusting Montipora Danae Corals, Pink

Encrusting Montipora Danae Corals, Candy Caulestrea Corals, Green Hydnothora Corals, Merulina Corals, Cultured Acropora Corals, Wild Purple & Yellow Acropora Corals, Green Fox Corals, Branching Frogspawn Corals, Branching Hammer Corals, Bubble Corals, Super Favites Corals, Green Trachyphilia Corals, Red Trachyphilia Corals, Bright Orange Scolymia Corals, AWESOME Blasstomussa Wellsi Coral, Very Rare Duncanopsammia Axifuga Coral (5 polyps), Super Incredible XL Branching Black Tubastrea Coral.

**Other** – Blue Spot Seahares, Metallic Pink True Rose Anemone, Green Bubble Anemones, Purple Tip Sebae Anemones, Long Tentacle Anemones.

This list is based on our most recent shipment of saltwater livestock. There are many other species available in the store not included in this list.