

Technical Data Sheets



WINSTON
COMPANY, INC.

CrystalClear® Tech Data Sheets
Revised: 10/07



Technical Data Sheet

Revised: 10/07

Paracid Parasite Treatment

Product Make-Up: Trichloracide (Dry)

Package: 8 oz. Bottle

Treats: 1 Bottle Treats 9,600 Gallons

Toxic: When Used Not In Accordance With Label

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temperature

Shelf Life: 2 Years

MSDS Sheet: Available Upon Request

Paracid Parasite Fish Treatment

Paracid Parasite Treatment is a widely used material by pond and aquarium hobbyists and professionals for control of infestations of fish lice, anchorworm and flukes which are common in pond and aquarium habitats. Paracid Parasite Treatment works extremely well on pond fish species such as koi and goldfish as well as on commonly found aquarium fish species.

Anchorworm

What Is It: A swimming, mobile crustacean parasite that begin their life-cycle on fish gills then leave the gills to rest on the host body. **Warning Signs:** Visible reddish anchorworms, bloody spots on the body of the fish, scraping and flashing. **Cause:** Introduced by other pond species or new fish that are not properly quarantined.

Fish Lice

What Is It: A swimming, mobile crustacean parasite that is found on fish gills and body. **Warning Signs:** Red welts on the body, scratching, jumping, disinterest in feeding. **Cause:** Introduced by other pond species or new fish that are not properly quarantined.

Flukes

What is It: A translucent parasite commonly found on gills and skin and are very active in the Spring time. **Warning Signs:** Red irritations, scratching, flashing, fish may appear to be yawning to expel the flukes from gill filaments. **Cause:** Most all fish have flukes and are typically kept under control by personal grooming. However, sick fish or fish coming out of Wintering are very susceptible to mass infestations.

Directions For Use

Dissolve ½ teaspoon of Paracid in dechlorinated water for every 100 Gallons of water to be treated and add to the pond or aquarium. Apply once a week for a four week time period. After treatment it is advisable to perform at least a 50% water change and replace all filter media.

Bath Application

Should you want to avoid water changes and replacing filter media a bath application can be performed in a separate holding tank or "hospital tank", do not reuse container for any other use. Remove affected fish from ecosystem and place in 100 ppm of Paracid. 100 PPM = 3/4 teaspoon of Parasite Treatment for every 34 oz. of pond water for no more than 15 minutes at 54 °F or 45 minutes at 38 °F. Aerate hospital tank vigorously during application.

Precautionary Statement

This product is not safe for invertebrates and is advisable to wait at least 3 full days before introducing invertebrates back into the ecosystem. Only use the amount stated above. Overdosing will not increase affect. If swallowed call a physician immediately and induce vomiting by administration of a tablespoon of salt in a glass of water. Repeat this process until vomit is clear.



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WipeOut Bacterial Treatment

Product Make-Up: Oxolinic Acid

Package: 8 oz. Bottle

Treats: 1 Bottle Treats 4,800 Gallons

Toxic: When Used Not In Accordance With Label

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temperature

Shelf Life: 2 Years

MSDS Sheet: Available Upon Request

WipeOut Bacterial Treatment

WipeOut Bacterial Treatment is excellent for controlling gill diseases in pond and aquarium fish. Bacterial diseases generally result from fish stress due to adverse water quality conditions (pH, oxygen or temperature problems), habitat clean-outs, untreated abrasions or predators. WipeOut Bacterial Treatment works extremely well on pond fish species such as koi and goldfish as well as on commonly found aquarium fish species.

Finrot

What Is It: Is a condition that effects fish fins (mainly dorsal fins) and is caused by the bacteria *Pseudomonas* and *Aeromonas*. **Warning Signs:** Noticeable decay of the dorsal fin, disinterest in feeding and noticeably weakened condition. **Cause:** Colder temperatures, poor water quality and untreated abrasions.

Ulcers

What Is It: A condition resulting most often from an abrasion or injury. *Aeromonas* bacteria invade the injury on the body and will often move internally if the injury is not treated promptly. Ulcers often lead to koi septicaemia. **Warning Signs:** Abrasions, ulcerous reddish, purple lesions on the sides of the fish. **Causes:** Colder temperatures, poor water quality and untreated abrasions.

Directions For Use

Dissolve 1 teaspoon of WipeOut Bacterial Treatment in dechlorinated water for every 100 Gallons of water to be treated and add to the pond or aquarium for a 24 hour period. It is advisable to remove filter media prior to treatment for the 24 hour duration of treatment with WipeOut Bacterial Treatment.

Bath Application

Should you want to avoid removing filter media a dip application can be performed in a separate holding tank or "hospital tank", do not reuse container for any other use.

Remove fish from ecosystem and place fish in hospital tank for 24 hours. Mixture in tank should be 1 teaspoon of Bacterial Treatment mixed with at least 50 gallons of pond water. Aerate hospital tank vigorously during the 24 hour period.



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ReStore Fungus Treatment

Product Make-Up: Formalin

Package: 8 oz. Bottle

Treats: 1 Bottle Treats 1,200 Gallons

Toxic: When Used Not In Accordance With Label

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temperature

Shelf Life: 2 Years

MSDS Sheet: Available Upon Request

ReStore Fungus Treatment

ReStore Fungus Treatment keeps your koi or goldfish safe from commonly found parasitic protozoans such as, Ichthyophthirius, Trichodina, Costia and Chilodonella. ReStore Fungus Treatment is also very good for treating many common bacterial diseases.

Ichthyophthirius (Ick)

What Is It: Ich is a parasitic protozoan that lives under fishes skin. It is a very pervasive parasite and left untreated can kill every fish in the pond very quickly. **Warning Signs:** Fish will exhibit white spots, clamped fins, slimy skin, may become listless, loss of appetite. **Cause:** Sudden cold, overcrowding, overfeeding, poor water quality including high ammonia or nitrite levels and poor dissolved oxygen content.

Trichodina

What Is It: A protozoan parasite that is oval or saucer-shaped in appearance and can be found on the fins, body and gills. **Warning Signs:** Fish covered in grayish film covering body, scratching, disinterest in feeding, gasping for air, areas of redding and jumping. **Cause:** Overcrowding, poor water quality and stress.

Costia

What Is It: A flagellate parasite found both internally and externally and is very active in the early Spring time. **Warning Signs:** Laboured and/or heavy breathing, disinterested in feeding, lethargic, covered in excess mucus. **Cause:** Active between 50°F and 77°F and can be transferred from pond to pond on nets and koi socks.

Chilodonella

What Is It: A protozoan parasite that looks similar to a black-eyed pea and can be found on the fins, body and gills, typically in the early Spring. **Warning Signs:** Grayish film covering body, scratching, disinterest in feeding, jumping, and may become lethargic. **Cause:** Poor water quality, overcrowding and stress.

Accompanying Bacterial Diseases

All parasites listed here will generally be accompanied by a bacteria infection or disease. ReStore Fungus Treatment will also help control bacterial infection and disease.

Directions For Use

1 Fluid Oz. Treats 150 Gallons

Mix 1 fluid oz. in 1 gallon of water for every 150 gallons, disperse over the entire pond surface.



Technical Data Sheet

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KnockOut Ick Treatment

Product Make-Up: Formalin & Malachite Green

Package: 8 oz. Bottle

Treats: 1 Bottle Treats 2,400 Gallons

Toxic: When Used Not In Accordance With Label

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temperature

Shelf Life: 2 Years

MSDS Sheet: Available Upon Request

KnockOut Ick Treatment

KnockOut Ick Treatment is formulated for helping control Ick on pond fish. Treated correctly KnockOut Ick Treatment will remove ick parasites, protozoa, bacteria and fungi from most fish species. KnockOut Ick Treatment is a broad spectrum treatment for fungus, ick and flukes.

Ichthyophthirius (Ick)

What Is It: Ick is a parasitic protozoan that lives under fishes skin. It is a very pervasive parasite and left untreated can kill every fish in the pond very quickly. **Warning Signs:** Fish will exhibit white spots, clamped fins, slimy skin, may become listless, loss of appetite. **Cause:** Sudden cold, overcrowding, overfeeding, poor water quality including high ammonia or nitrite levels and poor dissolved oxygen content.

Directions For Use

2 Teaspoons Treats 100 Gallons

Repeat treatment three times over a two week time period.

Remove all forms of filter media during the two week time period.

Bath Application

Should you want to avoid removing filter media a dip application can be performed in a separate holding tank or "hospital tank", do not reuse container for any other use. Remove 25% – 50% of water in tank before each application.

Caution

Only use the amount stated above. Overdosing will not increase affect. Avoid contact with skin, eyes and mucous membranes. Repeated contact with skin may result in an allergic irritation. Use in well ventilated area and is advisable to use gloves when handling this product. In case of contact with skin or eyes flush with water for 15 minutes and get medical attention immediately. If swallowed give 1 or 2 glasses of water and call physician. Immediately induce vomiting only if directed to do so by physician.



Technical Data Sheet

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ParaSalt Treatment

Product Make-Up: Sodium Chloride (Food Grade) & Essential Minerals and Nutrients

Package: 2 lb. Bottle

Treats: 1 Bottle Treats 1,000 Gallons

Toxic: When Used Not In Accordance With Label

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

ParaSalt Pond Treatment

ParaSalt is formulated to increase koi and goldfish electrolytic intake. Electrolytes are critical in building and maintaining a healthy slime coat. Electrolytes such as potassium are essential in wound repair and in times of heavy stress (ie – during water changes or clean-outs). Salt is excellent for mucous production when healing from a wound.

ParaSalt will also help ward off and remove most common protozoan parasites found in koi and goldfish such as, Dactylogyrus, Byrodctylus, Epistylis, Trichodina and Chilodonella. ParaSalt can be used in a salt bath for heavy infestations or as a routine treatment to keep parasites from entering the pond environment.

Application Rates

1 Cup Treats 100 Gallons

5 Cups Treats 500 Gallons

10 Cups Treats 1000 Gallons

ParaSalt after a water change or clean-out or during a seasonal change. Most pond fish stress during these times.

Bath Application

Add 7 pounds of ParaSalt for every 28 gallon of water in isolated bath. Place infected fish in the aerated bath for 5-10 minutes or until the fish begins to turn over. Remove fish immediately if fish shows any signs of stress. After bath place fish into a separate quarantine tank for 30 minutes and monitor.



Technical Data Sheet

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Thrive Aquatic Plant Fertilizer

Product Make-Up: 10-15-8

Package: 25, 900 Pellet Bottles

Toxic: When Used Not In Accordance With Label

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Thrive Aquatic Plant Fertilizer

Thrive Aquatic Plant Fertilizer is designed to keep your aquatic plants healthy and beautiful all season long. Thrive Aquatic Plant Fertilizer 10-14-8 formulation is ideal for keeping flowing and non-flowering plants vibrant and colorful.

Thrive Aquatic Plant Fertilizer will efficiently feed aquatic plants without releasing any harmful chemicals into the water that might contribute to algal growth. The simple application of Thrive Aquatic Plant Fertilizer makes aquatic plant care easy and mess free. Simply use one tablet for every gallon of soil each month during the growing season. Push one tablet one finger deep into the soil, 3" from the crown of the plant. Press soil around the inserted tablet to prevent fertilizer from being released into the water. It is always a good idea to feed plants every two weeks when the water temperature raises above 75°.

Thrive Aquatic Plant Fertilizer is ideal for both the professional aquatic plant grower as well as the pond enthusiast. Aquatic Plant Fertilizer will save both time and money and provide display or personal ponds with beautiful and colorful aquatic plants throughout the season.

Thrive Aquatic Plant Fertilizer is registered in every in the U.S. and meets all state and federal requirements for fertilizer safety.

Guaranteed Analysis

Total Nitrogen (N)	0.0%	Boron (B)	0.02%
Ammoniacal Nitrogen	5.5%	Soluble Copper (Cu)	0.05%
Nitrate Nitrogen	2.4%	Soluble Iron (Fe)	0.11%
Water Insoluble Nitrogen	1.5%	Soluble Manganese	0.12%
Urea Nitrogen	0.6%	Molybdenum (Mo)	0.0006%
Available Phosphate (P2O5)	14.0%	Soluble Zinc (Zn)	0.07%
Soluble Potash (K2O)	8.0%		

Derived from Ammonium Phosphate, Potassium Nitrate, Urea Formaldehyde, Manganese Sulfate, Iron Sulfate, Zinc Sulfate, Copper Sulfate, Boric Acid and Sodium Molybdenum.



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Nature's Choice Barley Straw Pellets

Product Make-Up: Ground Barley Straw

Package: 2 Lb. Box, 6 Lb. Bucket

Treats: 2 lbs. Treats 3,000 Gallons For 1 Month

Toxic: Non-Toxic, All-Natural

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Nature's Choice Barley Straw Pellets

Nature's Choice Barley Straw Pellets utilize barley degradation technology to help manage pond problems throughout Spring, Summer, Winter and Fall. When placed in an area of the pond where there is steady water flow the barley pellets will slowly degrade. As the pellets degrade they emit a substance that assists in keeping your pond clean all season long.

Once Nature's Choice Barley Straw Pellets are placed in water they begin to breakdown and over a several week period release a substance similar to hydrogen peroxide, which retards algal growth. After three months it is best to replace the bag with new pellets and begin anew. If the bag should be left in longer than two months the barley will begin to rot and could create an unsafe condition within the pond.

Nature's Choice Barley Straw Pellets are much better and work faster within a pond environment than barley bails because they are "pre-brokendown". By grinding and pelletizing the barley it enables it to be broken down much faster than in a bail form.

Nature's Choice Barley Straw Pellets can be applied in skimmer units, filter units, waterfall units or in any area of water movement. Water movement degrades the pellets faster and enables them to perform their function much faster.

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 9.0.

WATER TEMPERATURE ABOVE 60°F (15°C).

DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



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Vanish Dry Dechlorinator

Product Make-Up: Active – Sodium Thiosulfate

Package: 8 oz. Bottle, 2 Lb. Bottle, 25 lb. Drum

Treats: 8 oz. Dry Treats 45,000 Gal.

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Vanish Dry Dechlorinator

Even low levels of chlorine and chloramines can be extremely toxic to fish. Chlorine is a very powerful oxidizing agent and it is toxic to fish at concentrations of less than 0.05 mg/L. Water used for fish culture should not contain any residual chlorine to be considered safe. Chlorine and chloramines cause gill damage which eventually results in gill lesions. These lesions will eventually thicken the gill filaments leaving the fish unable to utilize oxygen and release carbon dioxide, thus resulting in fish death. Vanish Dry Dechlorinator will work to remove chlorine down to non-toxic levels. Vanish Dry Dechlorinator removes chlorine almost instantaneously and make the water column safe for the introduction of fish and plants.

Vanish Dechlorinators (Liquid & Dry) active ingredient is sodium thiosulfate which is widely used to break down chlorine and chloramines and is considered non-toxic to fish. Sodium thiosulfate was chosen because it provides a very effective solution for use in water gardens and ponds because of its ability to break the chloramine bond and chemically remove the chlorine after a short working time. Aeration of the water will allow the ammonia, which was released from the chloramine bond, to escape as a gas over a period of one to two hours. Any remaining ammonia will be filtered out through flow through filters which most often contain activated carbon or some type of filter material.

50 cc: Treats 1,000 Gallons

150 cc: Treats 3,000 Gallons

250 cc: Treats 5,000 Gallons

100 cc: Treats 2,000 Gallons

200 cc: Treats 4,000 Gallons

Chlorine: A disinfectant added to municipal water supplies to kill harmful bacteria, but toxic to fish and beneficial bacteria. Over time, chlorine will thicken the gills of a fish.

Chloramine: A mixture of compounds that occur when both ammonia and chlorine are used to treat municipal water supplies. Chloramines are more stable than chlorine and the reaction time to remove chloramines is somewhat longer than for chlorine



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RapiClear Pond Flocculent

Product Make-Up: Alum Flocculating Agent

Package: 16 oz., 32 oz., 64 oz. & 1 Gallon

Treats: 16 oz. Treats 8,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

RapiClear Pond Flocculent

CrystalClear® RapiClear is designed to clear water gardens and koi ponds quickly and safely by combining suspended particulate together. This process is commonly called “flocculation”. Flocculation basically means that suspended organics within the water column attract together, making the accumulated mass heavier than water. This “mass” will eventually drop to the bottom of the pond where a good bacteria colony can utilize the organic mass as food and remove it from the pond, or it will simply get removed by filters, skimmers, etc. A must have product for any garden center, pond store, pet store or aquatics dealer.

CrystalClear® RapiClear is made from an all-natural polymer and its primary ingredient is a naturally occurring material in nature. Flocculation should last for several weeks after application. There will be some minor clouding of the water once applied and if pH is high within the water column the product may be neutralized. See below for best conditions.

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 8.0.

WATER TEMPERATURE ABOVE 60°F (15°C).

DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



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PondTint

Product Make-Up: Blue Food Grade Dye

Package: 16 oz., 32 oz., 64 oz., & 1 Gallon

Treats: 1 oz. Treats 1,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

PondTint Blue Pond Dye

CrystalClear® PondTint turns your pond an alluring shade of blue to help prevent photosynthesis from occurring within the pond. This will help keep algae from forming, provide safety for fish from predators and will help keep water cool in the hot summer days. CrystalClear® PondTint is a mild dye and will not be an “overpowering” dye that you will not be able to see your fish. It is designed to act more like car window tint and not a complete cover. CrystalClear® PondTint is the perfect product for the pond during those hot summer months.

CrystalClear® PondTint helps prevent photosynthesis from occurring within the water column and refract the light. Algae needs sunlight for photosynthesis to occur (see below for definition):

PHOTOSYNTHESIS: This is the chemical reaction by which carbon dioxide and water combine producing oxygen and the sugars that the plants need for growth. This is accomplished by light acting on light-sensitive pigments called *chlorophylls*. – Source: www.botany.com.

Without sunlight photosynthesis cannot occur. Shading the pond can also be accomplished by using floating plants such as water lettuce, water hyacinth or water lilies.

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 9.0.

WATER TEMPERATURE ABOVE 60°F (15°C).

DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



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Foam Remover

Product Make-Up: Foam-B-Gone Foam Remover

Package: 8 oz., 1 Gallon

Treats: 1 Tablespoon Treats 500 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Foam-B-Gone Foam Remover

Removes protein foam from fountains and ponds, works in seconds, helps keep water clean, 100% safe & effective, easy application and is non-hazardous. CrystalClear® Foam-B-Gone is a natural dispersant that has been commonly used in large wastewater treatment facilities.

If foam continues to be a problem after the initial treatment, treat the pond again at the same dosage rate until foam dissipates. For heavy organic loads it is always best to supplement the water column with a bacterial product to assist in the removal of unwanted organics. We suggest CrystalClear® AmmoniaFix.

CrystalClear® Foam-B-Gone can also be used on fountains and statuary at the rate of 1/8 Teaspoon for every 10 gallons of water.

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 8.0.

WATER TEMPERATURE ABOVE 60°F (15°C).

DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



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Sparkle Fountain Cleaner

Product Make-Up: Cleaning Agent

Package: 8 oz. Bottle

Treats: 1 Ounce Treats 10 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Sparkle Fountain Cleaner

CrystalClear® Sparkle fountain cleaner is a revolutionary product designed specifically to keep your fountain clean and clear. CrystalClear® Sparkle fountain cleaner helps prevent stains, sludge, mineral deposits and organic contaminants from forming in basins.

CrystalClear® Sparkle fountain cleaner is non-toxic and works on ceramic, marble, metal or stone basin fountains. Routine applications of CrystalClear® Sparkle fountain cleaner will keep your fountain sparkling all year long.

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 8.0.
WATER TEMPERATURE ABOVE 60°F (15°C).
DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



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SubLime Fountain Limescale Remover

Product Make-Up: Alkaline Limescale Cleaner

Package: 8 oz. Bottle

Treats: 1 Ounce Treats 10 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

SubLime Fountain Limescale Remover

CrystalClear® SubLime is the most effective product available for removing lime scale from fountain basins. CrystalClear® SubLime will help your fountain pump run more freely and resist breakdown as well as keep your basins clean and healthy. Lime scale build-up is a common problem found in tiered fountains due to the continual splashing and closed nature of the system. Fountains do not have filtration devices so there is no device to help remove contaminants such as lime and other pollutants which is why it is essential to apply CrystalClear® SubLime on a regular basis.

CrystalClear® SubLime is designed to deep clean basin pits, cracks and crevices to ensure a new appearance year round. CrystalClear® SubLime will also prolong the life of fountain pumps by removing limescale and calcium deposits in and around the pump housing.

Because of massive evaporation experienced by most fountains it is best to drain fountain basins every 2-3 months, refill with fresh water and re-apply CrystalClear® SubLime.

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 8.0.
WATER TEMPERATURE ABOVE 60°F (15°C).
DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



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Premium Goldfish Food

Product Make-Up: See Below

Package: ¼ Kg. Bag, Mini Pellet

Treats: Year-Round Feeding

Toxic: GRAS – Generally Recognized As Safe

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 5 Years

MSDS Sheet: No MSDS – GRAS Classification

Goldfish Food

CrystalClear® Premium Goldfish Food is designed for year-round feeding to produce maximum growth, color enhancement and vitality. CrystalClear® Premium Goldfish Food is the result of years of laboratory and extensive field research and development with top Koi and Goldfish breeders. CrystalClear® Premium Goldfish Food offers a premium blend of vitamins and minerals specifically designed to increase color, growth and vitality in all Goldfish species.

CrystalClear® Premium Goldfish Food contains high levels of Stabilized Vitamin C and Capsanthin (Natural Pigment) to assist with increased color vibrance and vitality. In addition CrystalClear® Premium Goldfish Food is nitrogen flushed for maximum freshness. CrystalClear® feeds are one of the only feeds that are nitrogen flushed to increase shelf life for up to 10 years. CrystalClear® Premium Goldfish Food is manufactured in the U.S.A. so it hasn't been sitting on a slow boat from Asia for a month before it gets to the U.S.

CrystalClear® Premium Goldfish Food isn't a glorified catfish meal like many of its competitors in the marketplace today. There is no corn, alfalfa or any starchy ingredients in CrystalClear® Premium Goldfish Food that would have adverse effects on the fishes' digestive tract. This product contains wheat germ which is easily digestible and does not cause the fish to have inordinant amounts of fecal matter, which in turn keeps the pond cleaner longer.

Guaranteed Analysis

CRUDE PROTEIN (MIN.).....	35.0%
CRUDE FAT (MIN.).....	7.0%
CRUDE FIBER (MAX.).....	5.0%
MOISTURE (MAX.).....	10.0%
PHOSPHOROUS (MIN.).....	1.0%
ASH (MAX.).....	9.0%

Ingredients

Whole Wheat, Fish Meal, Wheat Germ, Soybean Meal, Blood Meal, Hydrolized Feather Meal, Stabilized Fish Oil, Di Calcium Phosphate, Licithin, Salt, Capsanthin (Natural Pigment), Vitamin A Acetate, D-Activated Animal-Sterol (D3), Vitamin B12 Supplement, Riboflavin Supplement, Niacin, Folic Acid, Menadione Sodium Bisulphite Complex, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamine, Biotin, dL a-tocopherol acetate, L-Ascorbyl-2-Polyphosphate (C) (Stabilized Vitamin C), Choline Chloride, Cobalt Sulfate, Copper Sulfate, Ferrous Sulfate, Manganese Sulfate, Ethylendiamine Dihydroiodide, Ethoxyquin (Anti-Oxidant).

Nitrogen Flushed For Maximum Freshness

Never Clouds Water

Formulated For Year-Round Feeding

Contains Natural Pigment For Maximum Color Enhancement

Contains Stabilized Vitamin C

Premium Formula For Rapid Growth

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Koi Food

Product Make-Up: Premium Koi Food

Package: 1 Kg., 4 Kg., 9 Kg.

Treats: Year-Round Feed

Toxic: GRAS – Generally Recognized As Safe

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: GRAS Classification

Koi Food

CrystalClear® Premium Koi Food is designed for year-round feeding to produce maximum growth, color enhancement and vitality. CrystalClear® Premium Koi Food is the result of years of laboratory and extensive field research and development with top Koi and Goldfish breeders. CrystalClear® Premium Koi Food offers a premium blend of vitamins and minerals specifically designed to increase color, growth and vitality in the Koi species.

CrystalClear® Premium Koi Food contains high levels of Stabilized Vitamin C and Capsanthin (Natural Pigment) to assist with increased color vibrance and vitality. In addition CrystalClear® Premium Koi Food is nitrogen flushed for maximum freshness. CrystalClear® feeds are one of the only feeds that are nitrogen flushed to increase shelf life for up to 10 years. CrystalClear® Premium Koi Food is manufactured in the U.S.A. so it hasn't been sitting on a slow boat from Asia for a month before it gets to the U.S.

CrystalClear® Premium Koi Food isn't a glorified catfish meal like many of its competitors in the marketplace today. There is no corn, alfalfa or any starchy ingredients in CrystalClear® Premium Koi Food that would have adverse effects on the fishes' digestive tract. This product contains wheat germ which is easily digestible and does not cause the fish to have inordinant amounts of fecal matter, which in turn keeps the pond cleaner longer.

Guaranteed Analysis

CRUDE PROTEIN (MIN.).....	35.0%
CRUDE FAT (MIN.).....	7.0%
CRUDE FIBER (MAX.).....	5.0%
MOISTURE (MAX.).....	10.0%
PHOSPHOROUS (MIN.).....	1.0%
ASH (MAX.).....	9.0%

Ingredients

Whole Wheat, Fish Meal, Wheat Germ, Soybean Meal, Blood Meal, Hydrolized Feather Meal, Stabilized Fish Oil, Di Calcium Phosphate, Spirulina, Lecithin, Salt, Vitamin A Acetate, D-Activated Animal-Sterol (D3), Vitamin B12 Supplement, Riboflavin Supplement, Niacin, Folic Acid, Menadione Sodium Bisulphite Complex, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamine, Biotin, dL α -tocopherol acetate, L-Ascorbyl-2-Polyphosphate (C) (Stabilized Vitamin C), Choline Chloride, Cobalt Sulfate, Copper Sulfate, Ferrous Sulfate, Manganese Sulfate, Ethylenediamine Dihydroiodide, Ethoxyquin (Anti-Oxidant).

Nitrogen Flushed For Maximum Freshness
Never Clouds Water
Formulated For Year-Round Feeding
Contains Spirulina For Maximum Color Enhancement
Contains Stabilized Vitamin C
Premium Formula For Rapid Growth



Technical Data Sheet

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pHusion pH Salts Down

Product Make-Up: Sodium Bisulfate Anhydrous

Package: 2 lb. Bottle

Treats: 2 Tablespoon Treats 1,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

pHusion pH Salts Down

Before using CrystalClear® pHusion, make sure the alkalinity (carbonate concentrations or buffering capacity) of your water is above 80 ppm. It is also a good idea to test the pH of the water first with CrystalClear® Test Strips. After testing, if pH is above 9.0 apply CrystalClear® pHusion. Keep in mind that most ornamental fish (koi and goldfish) can adjust to pH within 1 to 2 points of neutral (7.0), but it is very important to make pH changes gradually if fish are present. If possible, adjust the pH before adding fish. Use CrystalClear® pHusion slowly making changes at a rate of 0.2 points per day. If your water is hard or alkaline, a higher dose of CrystalClear® pHusion may be required. Dosages can be adjusted according to your water on future applications. When used correctly CrystalClear® pHusion will safely and efficiently lower the pH of an ornamental pond to within safe ranges (6.5 - 9.0).

As most people are aware high pH is an indication of high concentrations of alkalinity in water and low pH is an indication of high acid concentrations in water. In order to lower pH an application of an acid such as, CrystalClear® pHusion (sodium bisulfate anhydrous, a mild acid) is needed. Once CrystalClear® pHusion is added to the water sodium simply becomes a salt in solution and the same happens with the sulfate. All CrystalClear® pHusion will do is add the necessary hydrogen ions to the water by stripping the basic sodium and sulfate solutions, this will lower the pH.

Used correctly CrystalClear® pHusion will safely lower pH and is entirely safe for fish and aquatic plants. Unlike many pH down products CrystalClear® pHusion is phosphate and nitrate free. Since phosphate is the primary source of food for algae, this means that although the pond enthusiast may be lowering their pH they are at the same time contributing to algal growth in their pond.

pH: Is the measure of hydrogen ions present in an aquatic system. It can also be classified as a measure of acidity or basicity of water, with 7.0 being neutral. pH will increase with plant populations and decrease with excessive organic matter and animal population. Low pH water can harm fish gills. High pH water can harm fins and gills and contribute to algal growth. Pond pH generally follows a daily cycle of being the lowest just before dawn and highest in the afternoon due to photosynthesis and aquatic life respiration.



Technical Data Sheet

Revised: 10/07

SapHGuard pH Buffer

Product Make-Up: Sodium Bicarbonate

Package: 2 lb. Bottle

Treats: ½ Cup Treats 1,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

SapHGuard pH Buffer

All ponds are affected by pH. Alkalinity or acidity will determine whether the pH is high or low, respectively. In order to maintain pH at a constant it requires buffering the system, which means controlling the alkalinity of the water. Alkalinity is the capacity of a natural water system to resist change in pH and is measured in terms of bicarbonate and carbonate ions available in the aquatic system.

Mixtures of weak acids and their salts are called buffers. Carbonate is usually the most significant buffer system in natural waters and is the system that is usually responsible for pH maintenance in aquatic ecosystems. CrystalClear® SapHGuard is a pH buffer solution designed to resist pH change because of the ionization equilibrium between the weak acid and weak base changes in a manner that allows them to consume hydrogen ions or hydroxide ions that are added to the system. The initial pH of an aquatic system will be controlled by the ionization constant that exists, which depends on the relative concentration of acid or base and its salt. Solutions at pH below 7.0 are acid, those above 7.0 are basic (alkaline).

CrystalClear® SapHGuard resists changes in pH by releasing or absorbing hydrogen ion as necessary to maintain a steady state. The level of sodium bicarbonate and other buffering agents present in the system help establish the equilibrium pH. If a hydrogen ion, from respiration or the dissolution of atmospheric carbon dioxide, is added to a buffered water system, it will be captured by carbonate to form bicarbonate. Thus there will be no addition of free hydrogen ions to the system and the pH will not be reduced. As long as there is a source of hydrogen ions from bicarbonate, the pH of an aquatic system will not rise.

CrystalClear® SapHGuard will add alkalinity to an aquatic environment. As mentioned above alkalinity is the measure of carbonate concentration or the buffering capacity of water. It is essential for all water gardens and ponds to maintain a buffering capacity between 80-240 ppm for proper pH stabilization. A properly buffered system resists changes in pH due to acid rain and other external factors. Alkalinity is also essential for bacteria to complete the nitrification process which allows ammonia to be converted to nitrite and nitrite to nitrate.

CrystalClear® SapHGuard will help prevent wide pH swings which are very common from dawn to dusk due to respiration and photosynthesis. If buffering capacity is too low, CrystalClear® SapHGuard will increase pH stability and will increase buffering capacity. The use of sodium bicarbonate for the primary ingredient in CrystalClear® SapHGuard works extremely well for the water garden enthusiast. CrystalClear® SapHGuard is safe for fish and plants, it has a three year shelf life and it accomplishes its function (stabilizing pH) slowly and safely.



Technical Data Sheet

Revised: 10/07

AmmoniaFix Nitrifying Bacteria

Product Make-Up: Nitrosomonas, Nitrobacter Bacteria

Package: 16 oz., 32 oz., 64 oz., & 1 Gallon

Treats: 32 oz. Treats 8,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 2 Years

MSDS Sheet: Available Upon Request

AmmoniaFix Nitrifying Bacteria

CrystalClear® AmmoniaFix is also an all-natural bacteria and enzyme based product specifically designed to polish water by completing the nitrification cycle (See Chart, Next Page). CrystalClear® AmmoniaFix contains special strains of bacteria that will safely convert ammonia to nitrite and nitrite to nitrate via a process known as nitrification. Once this process is complete toxic ammonia has been converted to harmless nitrate which can be utilized by aquatic plants as a nutrient source. CrystalClear® AmmoniaFix will remove some nitrate on an anaerobic level but most of the remaining nitrate will be used by aquatic plants.

Ammonia is extremely toxic in its un-ionized form and non-toxic in its ionized form. This can be controlled by keeping pond water at low pH levels. At low pH levels ammonia will ionize and at levels higher than 7.2 ammonia begins to un-ionize and becomes more and more toxic. Ammonia at high levels will burn the surface of fish scales and gills thereby stressing the fish to the point of death. This dilemma can be diverted by simply applying a good nitrifying bacteria such as CrystalClear® AmmoniaFix.

Biologically, nitrogen compounds may be stripped of their oxygen and other compounds by certain types of bacteria which are found in CrystalClear® AmmoniaFix. These bacteria, when they are restricted from access to oxygen, utilize nitrogen compounds instead of oxygen for respiratory purposes and biochemically pull away the oxygen component of the nitrogen ion. The net result of this process (denitrification) is nitrogen gas which is a bi-product of this cycle, thus completing the nitrification cycle. Once the nitrification cycle is complete the net result should be little to no ammonia, nitrite or nitrate levels and a significant clearing of water.

Nitrifying bacteria will readily colonize on the bottom of the pond and especially on the filter. As the water flows over the filter the bacteria will begin to work and pull nutrients from the water so we suggest (as with the other bacteria products) applying the products directly into the filter in order for the best and most effective results to be achieved.

CrystalClear® AmmoniaFix is designed to perform the same functions that the naturally occurring bacteria cannot perform. Most naturally occurring bacteria cannot keep up with the constant load of organics and algae entering the pond. Therefore, it is necessary to inoculate ponds with bacteria and enzyme supplements such as CrystalClear® AmmoniaFix to ensure a clear, healthy system. CrystalClear® AmmoniaFix is 100% safe for fish and plants and performs very well at seeding filters as well as the entire pond.

As with any living creature bacteria need certain environmental parameters to survive. Therefore, it is necessary to have the following characteristics present in a pond before treatment to ensure the proper function of this product:

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 9.0.

WATER TEMPERATURE ABOVE 60°F (15°C).

DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



Technical Data Sheet

Revised: 10/07

Clarity Max Plus

Product Make-Up: Bacillus Bacteria Cultured On Barley

Package: 2.5 lb. Bottle, 6 lb. Bucket, 25 lb. Bucket

Treats: 2.5 lb. Bottle Treats 20,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Clarity Max PLUS

CrystalClear® Clarity Max Plus is designed to restore balance to the pond environment. CrystalClear® Clarity Max Plus cleans ponds by breaking down organic materials that create problems for pond hobbyists in and around waterfalls, rocks, plant pots, pumps and filtration systems. CrystalClear® Clarity Max Plus takes CrystalClear® Biological Clarifier Plus' function to the next level. It works on your worst pond problem. CrystalClear® Clarity Max Plus is a natural product that has been field and laboratory tested on ponds that range from 500 gallons to 500,000 gallons. All had very favorable results.

CrystalClear® Clarity Max Plus is a patent pending formula that combines the natural degradative powers of barley with the powers of a strong bacteria colony, then we add several inert ingredients and 6 enzymes for a 3 in 1 product. CrystalClear® Clarity Max Plus contains Activated Barley®, a product that no other bacteria and enzyme company has

CrystalClear® Clarity Max Plus' Activated Barley® contains enough surface area to do the job of an entire bag of barley. No more messy barley bales or stinky bacteria products. CrystalClear® Clarity Max Plus is the 3 in 1 product that does it all!

CrystalClear® Clarity Max Plus was found to reduce excessive nutrient content that contributes to organic growth and helped to enhance existing filtration systems. CrystalClear® Clarity Max Plus is a problem solver. Once the problem has been resolved it is best to routinely treat the pond with either CrystalClear® Biological Clarifier (Dry or Liquid) or CrystalClear® AmmoniaFix to maintain a good bacterial balance within the pond system.

CrystalClear® Clarity Max Plus will break down and reduce pond debris, thus making it easier to remove by pond filtration systems. It has been Winston's field experience that the product works best in ponds from 500 - 8,000 gallons, however very good results have been recorded on much larger projects (16,000 - 500,000 gallon ponds).

Apply CrystalClear® Clarity Max Plus over the surface area or around the perimeter of the pond in dry form for best results. Be careful not to let the product dust plant coverage. Immediately after application the pond may become cloudy. This is a normal process and should clear within 24 - 48 hours. Algae growth should become noticeably reduced within 5 - 15 days time is application rates are followed. CrystalClear® Clarity Max Plus has been field and laboratory tested by some of the top names in the water gardening industry and has achieved a very good reputation with water gardening experts across the nation.

CrystalClear® Clarity Max Plus not only adds large quantities of beneficial bacteria to the pond but also introduces substances that change the chemistry of the water making the water column

unsuitable for algae growth. Algae cannot survive once this change in the environment has taken place. However, pond plants, fish, frogs, turtles and pond wildlife are unaffected by the change. Once added to the water column CrystalClear® Clarity Max Plus does not have an effect on pH or oxygen levels within the pond.

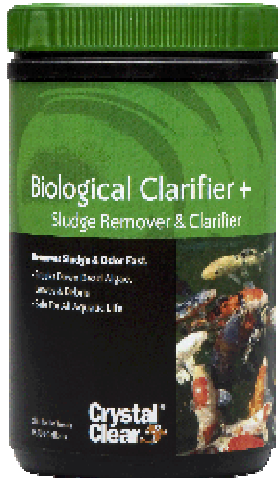
As with any living creature bacteria need certain environmental parameters to survive. Therefore, it is necessary to have the following characteristics present in a pond before treatment to ensure the proper function of this product:

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 9.0.

WATER TEMPERATURE ABOVE 60°F (15°C).

DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



Technical Data Sheet

Revised: 10/07

Biological Clarifier PLUS

Product Make-Up: Bacillus Bacteria Cultured On Barley

Package: 8 oz. Bottle, 2 lb. Bottle, 6 lb. Bucket, 25 lb. Bucket

Treats: 1 oz. Treats 1,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Biological Clarifier PLUS

CrystalClear® Biological Clarifier PLUS (Dry) is an all-natural, freeze-dried bacteria and enzyme complex formulated to remove nasty water and organic sludge. CrystalClear® Biological Clarifier PLUS (Dry) is fortified with several billion bacteria colonies per gram and six (6) enzymes all selected and designed for their waste and green water degrading properties. CrystalClear® Biological Clarifier PLUS (Dry) has among the highest bacteria counts presently available to the water gardening market today.

When applied to an aquatic system CrystalClear® Biological Clarifier PLUS (Dry) will begin to multiply exponentially and will begin to pull out nutrients and harmful wastes from a pond. These nutrients and wastes usually include organic material, fish wastes, dead plant life, leaves and many other organic materials. These "wastes" are, for all intent and purposes, bacteria food. The six enzymes contained in this product will perform the initial work to begin the breakdown of the waste. The enzymes will act as a "saliva" to breakdown the bulk of the waste so the bacteria can perform their function more easily and efficiently. Once the wastes have been consumed the only bi-products that are excreted by the bacteria are harmless carbon dioxide and water.

Most importantly CrystalClear® Biological Clarifier PLUS (Dry) is fortified with Activated Barley®. This product is cultured on barley to assist it in the degradative process. Most bacteria are cultured on whey, which serves no purpose in the pond eco-system. Now not only will the consumer have bacteria and enzymes available in the pond to do the work but also the degradative powers of barley. No more unsightly barley bags or stinky bacteria, now its all available in one product...CrystalClear® Biological Clarifier PLUS (Dry).

CrystalClear® Biological Clarifier PLUS (Dry) works to clear brackish water quickly and efficiently resulting in sparkling water year-round. A common misconception is that bacteria will eat living algae when in fact bacteria will not consume anything that is living. "The Pond Owner's Worst Problem" is often a very hard task for CrystalClear® Biological Clarifier PLUS (Dry) to rid the pond of since it is not suspended. Suspended particles (being much smaller) are much easier to remove than masses of "clumped up" organic. In some instances we have seen the product work to remove this problem but we do not claim this as one of CrystalClear® Biological Clarifier PLUS' (Dry) benefits.

CrystalClear® Biological Clarifier PLUS (Dry) is designed to perform the functions that the naturally occurring bacteria cannot perform. Most naturally occurring bacteria cannot keep up with the constant load of organics entering the pond. Therefore, it is necessary to inoculate ponds with

bacteria and enzyme supplements such as CrystalClear® Biological Clarifier PLUS (Dry) to ensure a clear, healthy system. CrystalClear® Biological Clarifier PLUS (Dry) is 100% safe for fish and plants and performs very well for seeding filters and the entire pond.

As with any living creature bacteria need certain environmental parameters to survive. Therefore, it is necessary to have the following characteristics present in a pond before treatment to ensure the proper function of this product:

Best Used When:

pH OF WATER MAINTAINED BETWEEN 6.5 AND 9.0.
WATER TEMPERATURE ABOVE 60°F (15°C).
DISSOLVED OXYGEN LEVELS ABOVE 3 PPM (3 MG/L).



Technical Data Sheet

Revised: 10/07

Algae-Off – EPA REGISTERED

Product Make-Up: Sodium Percarbonate

Package: 8 oz., 2 lb. Bottle, 10 lb. & 25 lb. Buckets

Treats: 2 lb. Bottle Treats 20,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Algae-Off EPA Registered Granular Algicide

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

For Use in the Following Containerized Sites: Water Gardens, Koi Ponds, Waterfalls, Fountains, Standing Water, and Water Collection. For Freshwater use only.

For Use On Non-Painted: Floors, Walkways, Storage Areas, Patios, Decks, Railings, Roofs, Asphalt Shingles, Siding, Fiberglass, Boats, Piers, Docks, Stairs, Ramps, Ground Cover Mats, Weed Control Mats, Concrete, Brick, Tile, Slate, Granite, Statues, Outdoor Furniture, Tennis Courts (non-grass), Shorelines, Gravel and Other Non-Painted Surfaces.

For Indoor Or Outdoor Residential Uses.

WATER TREATMENT: Use Algae-Off to treat, control and prevent a broad spectrum of algae in listed use sites. Effects of treatment are immediately apparent (bubbling, bleaching/discoloration of algae). Waters treated with Algae-Off are permissible to be used without interruption.

SURFACE TREATMENT: Use Algae-Off on all non-painted surfaces, to prevent and control algae, moss, slime molds and their spores, and the odors and conditions these organisms cause. Make granular applications over a wet surface or activate with water immediately following application.

APPLICATION METHODS

Spreading/Broadcast: Broadcast Algae-Off with a mechanical spreader or by hand, directly on wet surface or water in immediately following application. A lawn spreader or any other applicator that will insure uniform coverage is acceptable.

Spot Treatment: Apply Algae-Off directly over the infested area in dry form. Re-treatment is required when heavy growth occurs. For waterfall applications, turn off pumps and allow Algae-Off to sit on the waterfall for a period of 20 minutes and then turn pumps back on.

Liquid: Make a solution of Algae-Off (refer to liquid application rates). Spray this solution on the desired treatment surface until saturated/fully covered.

GENERAL TREATMENT NOTES

- Control of algae is most easily achieved when algae are not yet well established. Treat when growth first begins to appear.
- Algae-Off is water activated
- When applying Algae-Off to soil, gravel or other similar media, incorporate the product into the first inch of the substrate for optimum effectiveness.

- Apply early in the day under calm, sunny conditions and when the water temperatures are warm. Sunlight and higher temperatures both enhance Algae-Off's effectiveness.
- Apply in a manner that will insure even distribution of Algae-Off within the treatment area.
- Skim the dead algae and organic matter that rises to the water's surface after treatment. Allowing dead organics to sink and decay will provide a food source and additional nutrients that stimulate algae re-growth and further blooms.
- If using in conjunction with other water additives (such as non-pesticidal bacteria or enzymes) always apply Algae-Off first.
- Re-treat area if re-growth begins to appear. Allow 48 hours between consecutive treatments.
- Maintain with maintenance rates at a frequency appropriate for your environmental conditions.
- After application, do not allow undiluted granules to remain in an area where humans or animals are exposed.
- Non-targeted plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with grass, ornamentals and other foliage.

EFFECTIVENESS FACTORS

- Effects of Algae-Off treatment are immediately apparent (bubbling, bleaching/discoloration of algae)
- Algae-Off treatments are successful when contact of the pesticide is made with the algae.
- Liquid applications will not sink through the water column as readily as a granular application.
- When treating, it is possible that Algae-Off will not penetrate below the infested area and a second application is then required for treating any bottom growing algae.
- Apply more frequently during the summer months when water consumption and temperatures are high.

Application For Water Treatment: Light Algae Growth

Water Volume (gallons)	Algae-Off (lbs)	Algae-Off Approximate Volume
100	0.005	½ tsp
500	0.025	2.5 tsp
1,000	0.05	5 tsp
5,000	0.25	½ cup
100,000	5.0	-
1,000,000	50	-

Application For Water Treatment: Heavy Algae Growth

Water Volume (gallons)	Algae-Off (lbs)	Algae-Off Approximate Volume
100	0.025	2.5 tsp
500	0.125	¼ cup
1,000	0.25	½ cup
5,000	1.25	2.5 cups
100,000	25	-
1,000,000	250	-



Technical Data Sheet

Revised: 10/07

Vanish Liquid Dechlorinator

Product Make-Up: Active – Sodium Thiosulfate

Package: 8 oz., 16 oz., 32 oz., 1 Gallon

Treats: 32 oz. Treats 8,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Vanish Liquid Dechlorinator

Even low levels of chlorine and chloramines can be extremely toxic to fish. Chlorine is a very powerful oxidizing agent and it is toxic to fish at concentrations of less than 0.05 mg/L. Water used for fish culture should not contain any residual chlorine to be considered safe. Chlorine and chloramines cause gill damage which eventually results in gill lesions. These lesions will eventually thicken the gill filaments leaving the fish unable to utilize oxygen and release carbon dioxide, thus resulting in fish death. Vanish Dechlorinator (Liquid) will work to break the chlorine and chloramine bonds (chlorine + ammonia = chloramine) and reduce the chlorine and ammonia down to non-toxic levels. Vanish Dechlorinator Liquid will remove Chlorine, Chloramine, Ammonia, Heavy Metals & adds a Stress Coat Protectant for fish.

Vanish Dechlorinators (Liquid & Dry) active ingredient is sodium thiosulfate which is widely used to break down chlorine and chloramines and is considered non-toxic to fish. Sodium thiosulfate was chosen because it provides a very effective solution for use in water gardens and ponds because of its ability to break the chloramine bond and chemically remove the chlorine after a short working time. Aeration of the water will allow the ammonia, which was released from the chloramine bond, to escape as a gas over a period of one to two hours. Any remaining ammonia will be filtered out through flow through filters which most often contain activated carbon or some type of filter material.

50 cc: Treats 1,000 Gallons

150 cc: Treats 3,000 Gallons

250 cc: Treats 5,000 Gallons

100 cc: Treats 2,000 Gallons

200 cc: Treats 4,000 Gallons

Chlorine: A disinfectant added to municipal water supplies to kill harmful bacteria, but toxic to fish and beneficial bacteria. Over time, chlorine will thicken the gills of a fish.

Chloramine: A mixture of compounds that occur when both ammonia and chlorine are used to treat municipal water supplies. Chloramines are more stable than chlorine and the reaction time to remove chloramines is somewhat longer than for chlorine



Technical Data Sheet

Revised: 10/07

Polish AC (Activated Carbon)

Product Make-Up: Super Activated Carbon

Package: 5 lb. Bucket, 15 lb. Bucket

Treats: 5 lbs. Treats 1,000 Gallons

Toxic: Non-Toxic When Used As Directed

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 3 Years

MSDS Sheet: Available Upon Request

Polish AC Activated Carbon

Polish® AC activated carbon is highly efficient at removing harmful pond contaminants such as, tannins, ammonia, nitrite, nitrate, chlorine, phosphates, etc. Polish® AC is super-heated to “activate” the carbon and provide a high level of porous surface area for increased efficiency.

Polish® AC is appropriately named because it polishes the water and helps add a brilliant shine to any pond environment. Polish® AC is not meant to be a problem solver but a preventative and additive to keep potential problems at bay.

Polish® AC is super-heated. This process allows the carbon to become activated which makes contaminants and particles “stick” to or become absorbed by the carbon. After 3 months the carbon becomes so full that it should be replaced with fresh carbon.

Polishes Water
Repairs Stained Water
Removes Nitrates

Removes Chlorine
Eliminates Nitrites

Helps Clear Tannin Stained Water
Removes Foul Odors

Application Rate: 5 lbs of Polish® AC treats a 1,000 gallon pond for 3 months. When applying Polish® AC, place carbon in bag and thoroughly rinse bag before placing in filtration unit. After application dispose of used carbon with regular, city disposal services. Keep flow-through bag and wash before refilling.



Technical Data Sheet

Revised: 10/07

Aphid X Aphid Control

Product Make-Up: Garlic Juice & Water

Package: 12 oz. Spray Bottle

Treats: Aquatic & Terrestrial Plantings

Toxic: Non-Toxic

Warnings: Keep Out Of Reach Of Children, Not For Human Consumption, Store At Room Temp.

Shelf Life: 2 Years

MSDS Sheet: Available Upon Request

Aphid X Aphid Control

Keeps Insects Off Aquatic & Terrestrial Plants For 7 Days

Tested & Approved By Top Aquatic Nurseries

Safe For All Aquatic Life

Aphid X Is Effective At Repelling: Aphids, Mosquitoes, Ticks, Fleas, Gnats, Beetles, Caterpillars, Cutworms, Whiteflies, Maggots, Weevils, Wireworms, Armyworms, Borers, Chinch Bugs, Grasshoppers, Mites, White Grub Worms, Leafrollers, Mealybugs, Plant Bugs, Slugs, Earwigs & Mole Crickets. Aphid X is also effective at repelling Deer, Armadillos & Skunks.

Apply to plants in spring & summer once a week to keep aphids and other insects from invading aquatic plants. Make sure to liberally cover plants for best results. Aphid X becomes odorless shortly after application. It is a good idea to spray the plantings around the pond as insects from terrestrial plants can migrate to aquatic plants. Aphid X is best applied prior to insect infestations and will repel insects up to 7 days.

Aphid X has not been registered by the United States Environmental Protection Agency. Winston Company, Inc. represents that this product qualifies for exemption under the Federal Insecticide, Fungicide and Rodenticide Act.

ACTIVE INGREDIENTS:

Garlic Juice.....6.0%

Sodium Benzoate.....0.1%

INERT INGREDIENTS (De-ionized Water).....93.9%

TOTAL:.....100.0%

Aphid X is safe for use with fish, plants, birds or domestic animals that drink from the pond.

Helpful Tips

- 1.) It is not advisable to use chemicals together. Products such as fish medications and Algae-Fix for example can cause adverse chemical reactions that could be caustic to fish and plants. Products that are marked as natural, such as bacteria and enzyme products can be used together with no harm to the environment.
- 2.) When using fish medications as direct additives to the pond make sure to keep domestic animals away from the pond and do not let them drink from the pond.
- 3.) Store unused portions of all water treatments in a cool, dry place to ensure longer efficacy and maximum safety.
- 4.) Do not allow water treatments of any kind to freeze. This could affect the product's ability to perform as stated on the label.
- 5.) When dealing with tannin problems a helpful tip is to double the activated carbon in the waterfall unit and use rotating doses of RapiClear and Biological Clarifier. This should help to significantly decrease tannin colored water.
- 6.) If a customer is upset that Algae-Off is not working make sure they are applying the product dry and not diluting it with water. This is common mistake, although it states to apply the product dry on the label some consumers overlook it.
- 7.) Bacteria and enzyme products are live cultured products. Liquid bacteria products have a smaller shelf life because they are live in suspension in the bottle. So make sure to rotate stock religiously with these items.
- 8.) Dry bacteria products have a much longer shelf life than liquid products because they are freeze dried to preserve them. Dry products typically treat more water and give the consumer a much larger "bang for their buck".
- 9.) Sparkle fountain cleaner can be applied to any make of fountain. It can also be applied to pondless ponds and bubblers.
- 10.) Merchandise Sparkle & SubLime near or next to any fountain displays you may have at retail or sell them as a starter kit for new fountain owners as part of their purchase of the fountain.
- 11.) CrystalClear treatments treat a lot of water which makes their price per treatment much cheaper than almost any competitor on the market which is a very good selling point at retail.
- 12.) Algae-Off is the only product on the market with an advertised MONEY BACK GUARANTEE which is an excellent selling point.
- 13.) During the Spring think about doing a treatment display of Vanish Dechlorinator, CrystalClear Fish Medications and Algae-Off. During the Spring months are when fish ailments occur most and people are opening their ponds and will need dechlorinator and algae products.
- 14.) pH fluctuates due to many environmental factors so be sure to remind customers that pHusion will most likely take several applications to keep the pH at safe levels.

Helpful Tips Continued...

- 15.) It is important to note that Vanish Dechlorinator Dry only removes chlorine. Vanish Dechlorinator Liquid removes chlorine, chloramine, ammonia, heavy metals and adds a slime coat protectant.
- 16.) Try merchandising Thrive Aquatic Plant Fertilizer & Aphid X next to your aquatic plants or place them sporadically around the edges of the aquatic plant display ponds. You will see a dramatic increase in fertilizer sales.
- 17.)