

MICROBE-LIFT®



AQUARIUM CATALOG

Including: Vivariums, Specialty Fish and Planted Aquariums

Cichlids

Fresh

Salt

Discus

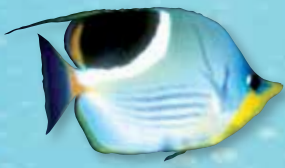
Plants

Flowerhorn & Parrot Cichlids

Vivariums

Reef





Visit us on the web: www.MicrobeLift.com

Company Profile

Ecological Laboratories is a U.S. based international biotechnology company specializing in the development and production of microbial products for the natural treatment of environmental issues associated with the various uses of water and recycling of organic matter. **All of our research, development and manufacturing are done in the United States.**

The Ecological Difference

Our core technology is a one of a kind formula for use in a broad spectrum of aquarium applications. **MICROBE-LIFT** has a proven track record and is the leading product by name in the pond category. Our core technology is also used by governments and industry worldwide to provide environmentally friendly and cost effective solutions for polluted lakes, canals, ponds and has even cleaned a river in China. With 35 years' global experience and a recognized consumer brand, we can now bring to you a superior aquarium product line that your consumers will enjoy for years to come.

Our promise to you is that MICROBE-LIFT/Special Blend does differ from all other microbial products in culture type, fermentation process and oxidation performance. Give our products a try in your own tanks. You will see the difference. Our Nite-Out II Nitrifying Bacteria has a track record of performance and once you use it, you'll see that our special formula for rapid ammonia and nitrite reduction really works. Also focus your attention on our Gravel & Substrate Cleaner, you'll see that it works wonders in aquariums and turtle tanks as well.

Philosophy



As a multi-generational, family-run business for over 35 years, we understand the challenges retailers face in a rapidly changing marketplace. We face similar challenges every day as most of our competitors are owned by large global corporations.

To Our Distributors and Retailers - We value the relationships with our partner distributors and retailers. We constantly look for ways to provide better training and support to those who sell our products. As a multi-generational, family-owned and operated business, we respect the importance of those retailers who can provide the knowledge and expertise to consumers, making sure that they understand the performance of the **MICROBE-LIFT** line of products.

SIGN UP FOR OUR FREE ONLINE DEALER DIRECTORY
www.MicrobeLift.com/register

MICROBE-LIFT® The Nationally Advertised Brand for Independent Retailers

Experience the Miracle

Advertisements



Our Aquarium Consumer Advertising Program!

With our Advertising Program in place, **Ecological Laboratories, Inc. will bring more consumers into your store.**

Since 1976, our commitment has been to our ever-strengthening relationships between dealers and consumers.

Our full-color, full-page ads will reach over 2 million readers!

Since 1976, MICROBE-LIFT® products by Ecological Laboratories, Inc. have been the proven way to promote healthy fish and sparkling, clear water naturally.

And thanks to our great dealer and distributor network, we're spending *more advertising dollars* to reach *more customers* for *you*. Our full-page, color ads will reach millions of customers throughout a year-long campaign in major aquarium publications.

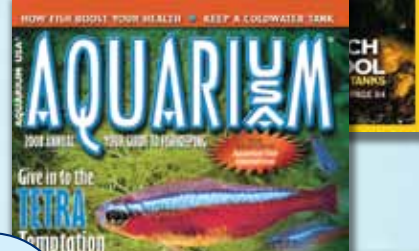
So, while many of these consumers cultivate beautiful aquariums and ponds, *you can cultivate new sales and higher profits!*



11,000 Readers Monthly!



5,500 Readers Monthly!



67,000 Readers Annually!



35,000 Readers Monthly!



55,000 Readers Monthly!



42,000 Readers Monthly!

3 Distinct Designs for Easy Identification



NEW

Saltwater Fish Shown on Top

Bullet Identifying Product is Made for use in Saltwater

Reef Safe Logo Where Applicable

Saltwater & Freshwater Fish Shown in the Center of the Label

Salt Water Design

Quantity Product Treats and Amount in Bottle Clearly Marked



Fresh & Salt Water Design



NEW

Every bottle comes with a dosing cup for easy measuring

Bullet Identifying Product Made for use in Freshwater

Clear Brand Identification

Bullet Identifying Product is Made for use in Salt and Fresh Water

Freshwater Fish Shown on Bottom

Fresh Water Design



MADE IN THE USA

Made in the U.S.A. Logo on all Water Conditioners



Reef Safe

Logo for Reef Safe Products

Art Code for Easy Shelf Identification

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Please note all 4, 8, and 16 oz. bottles in the catalog, including the displays are now shipped in black bottles with dosage caps attached except where noted.



* Natural Health Care Products are now in clear bottles.
** Fish Health Care Products come in white bottles.



Naturally Cycles Freshwater & Saltwater Aquariums Fast

**BACTERIAL
PRODUCTS**
REEF, MARINE
& FRESH
Water Safe

MICROBE-LIFT®/Special Blend & MICROBE-LIFT/Nite-Out II

The only *natural* aquarium treatment program to cycle and balance your aquarium fast using a safe, microbial, non-chemical biological process which naturally: controls and eliminates organic waste matter; enhances water quality; and reduces and controls toxic ammonia, nitrite and nitrate levels.

Just follow these simple steps:

Step #1: Add **MICROBE-LIFT/Special Blend** to your aquarium to break down and degrade all organic waste matter, assuring an improved environment for aquatic life and plants. **MICROBE-LIFT/Special Blend** seeds aquarium water, filters and establishes necessary biofilms in filters and on aquarium surfaces, removing unwanted waste matter and clarifying aquarium water *fast!* **MICROBE-LIFT/Special Blend** will also reduce and eliminate any aquarium odor.

As the organic waste matter in your aquarium (i.e., dead plant life, excessive fish food, and waste) is broken down by aquarium biology, the waste matter is converted to ammonia in a process called *Ammonification*. As the ammonia levels build in your aquarium, it can become toxic to fish and marine life and must be biologically removed quickly. *Nitrification*—the natural, biological ammonia removal process—is done by a group of microbes called *nitrifying bacteria*. Nitrifying bacteria are very slow to grow (requiring as much as 18 hours for a single cell division compared to every 45 to 60 minutes for waste degraders) and often require weeks to naturally develop the necessary population to convert all the ammonia produced in your aquarium.

Step #2: Use **MICROBE-LIFT/Nite-Out II** to quickly establish the necessary nitrifying cultures and the ammonia removal process in your aquarium. Just add **MICROBE-LIFT/Nite-Out II**, and these cultures will grow and convert the toxic ammonia to nitrite, and then to nitrate. **MICROBE-LIFT/Nite-Out II** also contains *Nitrosomonas sp.*—which converts ammonia to nitrite—and *Nitrobacter sp.*—which converts nitrite to nitrate.

Step #3: Use **MICROBE-LIFT/KH Test Kit** to measure the presence of necessary carbonate alkalinity. When below 50 ppm, add **MICROBE-LIFT/KH Booster**.

(When Needed) Step #4: Add **MICROBE-LIFT/KH Booster** which supplies the necessary carbonate alkalinity required by nitrifying microorganisms. If carbonate alkalinity is NOT present, the pH will be unstable and ammonia removal may cease. ML/KH also provides the necessary carbon source for nitrifying bacteria.

MICROBE-LIFT/Special Blend & Denitrification

MICROBE-LIFT/Special Blend provides a real value for your aquarium's environment. In addition to being one of the BEST products you can use to speed the biological removal of unwanted, slow-to-degrade organic matter from your aquarium environment, the novel cultures in **MICROBE-LIFT/Special Blend** assist in the removal of nitrate from aquarium water via a process called Denitrification.

While some aquarium nitrate is removed by plants and partial water changes, the most effective way to control nitrate removal is by biological denitrification. In this process, nitrate removal takes place in the anaerobic areas, such as those found in aquarium filter biofilms. **MICROBE-LIFT/Special Blend** cultures are also denitrifying microbes that provide an important nitrate removal pathway assisting in the removal of nitrate via denitrification. **MICROBE-LIFT/Special Blend** includes high-rate denitrifiers that convert nitrate to nitrogen gas under an anaerobic condition that exists in filters and aquarium surface reducing the nitrate level in you aquarium. It is noteworthy that algae can use nitrate as a nutrient.

MICROBE-LIFT/Special Blend and MICROBE-LIFT/Nite-Out II are the answer to *Natural, Clean, Clear, NON-TOXIC Aquarium Environment*. You can rely on these two novel, biological products to enhance water quality by removing slow-to-degrade waste matter, and removing and controlling ammonia, nitrite and nitrate via their natural, non-chemical biological processes.

DEMAND THE BRAND MICROBE-LIFT®

Nitrogen Gas (N₂)

Gaseous nitrogen bubbles harmlessly to the surface where it is released to the air, which is 78% nitrogen gas

Denitrification

The reduction of nitrate in filtered aquarium anoxic zones

ML/Special Blend (already added in step #1) contains denitrifiers that function without oxygen. These select microbes can remove nitrate in the aquarium by converting it to nitrogen gas under the anoxic conditions that exist in aquarium filters and their biofilms.



Nitrate (NO₃⁻)

A nutrient source for plants and algae

Nitrobacter sp. & Nitrospira sp.

ML/Nite-Out II (already added in step #2) provides the necessary *Nitrobacter sp.* and *Nitrospira sp.* bacteria required for the oxidation of nitrite to nitrate in the aquarium filter.

Nitrosomonas sp.

(contained in **ML/Nite-Out II**)

Converts ammonia to Nitrite (NO₂⁻)

Fish



Sources of Ammonia

In addition to the ammonia released by the fish through their gills, fish waste plus uneaten food protein and dead plant matter are broken down by the aquarium microbiota, generating ammonia

4 steps to a natural, clean, clear, non-toxic aquarium environment!

step #1: add **ML/Special Blend**

Speeds the removal of all organic waste matter in aquariums by adding a select group of microbes that increase the rate of organic breakdown and improve filter performance.



step #2: add **ML/Nite-Out II**

Provides the necessary nitrifying bacteria (*Nitrosomonas sp.*, *Nitrobacter sp.*, and *Nitrospira sp.* required for the biological nitrification process, and assures the continued removal of toxic ammonia.



step #3: use **ML/KH Test Kit**

Measures the presence of necessary carbonate alkalinity. When below 50ppm, add **ML/KH Booster**.



(when needed) step #4: add **ML/KH Booster**

Supplies the necessary carbonate alkalinity required by nitrifying microorganisms. If carbonate alkalinity is NOT present, the pH will be unstable and ammonia removal may cease. **ML/KH** also provides the necessary carbon source for nitrifying bacteria.



TERRARIUM CARE PRODUCTS

REPTILE & AMPHIBIAN CARE Products



REPTILES & AMPHIBIANS



Soy-Based Natural Cleaner for Terrariums, Vivariums, Aquariums & Cages

Specially formulated to safely clean, without a toxic residue:

- terrariums, vivariums, aquariums & cages
- steps, platforms, rocks, and all other ornaments

ITEM #	SIZE
NCRA08	8 fl. oz. (236 mL)
NCRA16	16 fl. oz. (473 mL)

AQUATIC TURTLE Products



AQUATIC TURTLES

Extreme Water Conditioner

- Removes ammonia
- Removes chlorine
- Destroys chloramines
- Detoxifies heavy metals
- Use for new tank set-ups & water changes

ITEM #	SIZE	TREATS	DOSAGE RATES
WCAT04	4 fl. oz. (118 mL)	Treats up to 236 gal. (893 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L).
WCAT08	8 fl. oz. (236 mL)	Treats up to 472 gal. (1,786 L)	



AQUATIC TURTLES

Bacterial Water Balancer

- Provides rapid reduction of organic waste
- Helps reduce or eliminate pathogenic bacteria
- Helps to clean power filters
- Reduces tank maintenance
- Helps to reduce turtle loss

ITEM #	SIZE	TREATS	DOSAGE RATES
BBAT04	4 fl. oz. (118 mL)	Treats up to 236 gal. (893 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L).
BBAT08	8 fl. oz. (236 mL)	Treats up to 472 gal. (1,786 L)	



AQUATIC TURTLES

Rock & Substrate Cleaner

- Provides rapid natural sludge reduction
- 80% faster than bacterial products alone
- Cleans turtle shells & limbs
- Helps to prevent shell rot
- Helps to degrade fecal matter
- Improves filtration

ITEM #	SIZE	TREATS	DOSAGE RATES
RSCAT04	4 fl. oz. (118 mL)	Varies depending on treatment or maintenance.	See label for directions.
RSCAT08	8 fl. oz. (236 mL)		



1 oz. Kits for tanks up to 20 gal. (76 L):

4 oz. Kits for tanks up to 55 gal. (208 L):

WATER
CYCLING &
CONDITIONING
KITS



**Instant Water Conditioning Kit*
2 Pack**
Item #HA2PKWC1



CONTENTS	DOSAGE RATES
1 pc. - 1 oz. Aquatic Stress Relief 1 pc. - 1 oz. Ammonia Remover	Use for tanks up to 20 gal. (76 L).
2 pc. - 1 oz. bottles	



**Immediate Water Cycling Kit*
2 Pack**
Item #HA2PKCYC1



CONTENTS	DOSAGE RATES
1 pc. - 1 oz. Special Blend 1 pc. - 1 oz. Nite-Out II	Use for tanks up to 20 gal. (76 L).
2 pc. - 1 oz. bottles	



**Aquarium Cycling & Water Conditioning Kit*
3 Pack**
Item #HA3PKAQ1



CONTENTS	DOSAGE RATES
1 pc. - 1 oz. Aquatic Stress Relief 1 pc. - 1 oz. Special Blend 1 pc. - 1 oz. Nite-Out II	Use for tanks up to 20 gal. (76 L).
3 pc. - 1 oz. bottles	



**Instant Water Conditioning Kit*
2 Pack**
Item #HA2PKWC4



CONTENTS	DOSAGE RATES
1 pc. - 4 oz. Aquatic Stress Relief 1 pc. - 4 oz. Ammonia Remover	Use for tanks up to 55 gal. (208 L).
2 pc. - 4 oz. bottles	



**Immediate Water Cycling Kit*
2 Pack**
Item #HA2PKCYC4



CONTENTS	DOSAGE RATES
1 pc. - 4 oz. Special Blend 1 pc. - 4 oz. Nite-Out II	Use for tanks up to 55 gal. (208 L).
2 pc. - 4 oz. bottles	



**Aquarium Cycling & Water Conditioning Kit*
3 Pack**
Item #HA3PKAQ4



CONTENTS	DOSAGE RATES
1 pc. - 4 oz. Aquatic Stress Relief 1 pc. - 4 oz. Special Blend 1 pc. - 4 oz. Nite-Out II	Use for tanks up to 55 gal. (208 L).
3 pc. - 4 oz. bottles	

* Please note all bottles in these kits will now be black.

BACTERIAL PRODUCTS

REEF, MARINE & FRESH

Water Safe



Bacterial Aquarium Balancer

Odor Free

- Prevents "new tank syndrome"
- Helps to eliminate ammonia and nitrate
- Provides rapid reduction of organic waste
- Helps to clean power filters, ornaments and gravel
- Helps to reduce fish loss



ITEM #	SIZE	TREATS	DOSAGE RATES
BAB01	1 fl. oz. (30 mL)	Treats up to 118 gal. (446 L)	New Tanks: Add 1 tsp. for every 20 gal. (76 L) Established Aquariums: Add 1 tsp. (5 mL) per 10 gal. (38 L)
BAB04	4 fl. oz. (118 mL)	Treats up to 475 gal. (1,798 L)	New Tanks: Add 1 tsp. for every 20 gal. (76 L) Established Aquariums: Add 1 tsp. (5 mL) per 10 gal. (38 L)
BAB08	8 fl. oz. (236 mL)	Treats up to 950 gal. (3,600 L)	New Tanks: Add 1 tsp. for every 20 gal. (76 L) Established Aquariums: Add 1 tsp. (5 mL) per 10 gal. (38 L)
BAB16	16 fl. oz. (473 mL)	Treats up to 1,900 gal. (7,200 L)	New Tanks: Add 1 tsp. for every 20 gal. (76 L) Established Aquariums: Add 1 tsp. (5 mL) per 10 gal. (38 L)
BAB64	64 fl. oz. (1,893 L)	Treats up to 7,600 gal. (28,728 L)	New Tanks: Add 1 tsp. for every 20 gal. (76 L) Established Aquariums: Add 1 tsp. per 10 gal. (38 L)
BABG1	1 gal. (3.78 L)	Treats up to 15,200 gal. (57,456 L)	New Tanks: Add 1 tsp. for every 20 gal. (76 L) Established Aquariums: Add 1 tsp. per 10 gal. (38 L)



Bacterial Starter Kit* 4 Pack

Item #HA4PKBAC



CONTENTS

- 1 pc. - 4 oz. Bacterial Aquarium Balancer
- 1 pc. - 4 oz. Gel Filter Cartridge Inoculant
- 1 pc. - 4 oz. Nite-Out II
- 1 pc. - 4 oz. Gravel and Substrate Cleaner
- 4 pc. - 4 oz. bottles

* Please note all bottles in this kit will now be black.



Gel Filter Cartridge Inoculant

- Contains 54 billion CFU per 4 liters of gel
- Immediately establishes biological activity
- Quickly stabilizes aquarium environments
- Use when inserting a new cartridge in your filter or after every cartridge cleaning
- Use whenever placing new filter media in your aquarium filtering system decorations



ITEM #	SIZE	DIRECTIONS
GFCI04	4 fl. oz. (118 mL)	Spread directly to your filter cartridges, filter pad or media. The Gel will absorb into the filter cartridge, pads or media by letting it set for 15-30 minutes before inserting back into the filter. After insertion, turn off recirculating pump for one to two hours.
GFCI08	8 fl. oz. (236 mL)	
GFCI16	16 fl. oz. (473 mL)	



Gravel & Substrate Cleaner

Natural & Non-Caustic

- Provides rapid and natural sludge & muck removal
- 80% faster than bacterial products alone
- Reduces and binds nutrients including Phosphates
- Organic and microbial based



ITEM #	SIZE	TREATS	DOSAGE RATES
GSC01	1 fl. oz. (30 mL)	Variable depending on treatment or maintenance.	See package for details.
GSC04	4 fl. oz. (118 mL)		
GSC08	8 fl. oz. (236 mL)		
GSC16	16 fl. oz. (473 mL)		
GSC64	64 fl. oz. (1,893 L)		
GSCG1	1 gal. (3.78 L)		



Nite-Out II™ Nitrifying Bacteria Specially Formulated for Rapid Ammonia and Nitrite Reduction

- Decreases ammonia & nitrite toxicity



ITEM #	SIZE	TREATS	DOSAGE RATES
NITEH01	1 fl. oz. (30 mL)	Treats up to 60 gal. (233 L)	New tanks: Add 1 tsp. (5 mL) per 10 gal. (38 L), every other day, until Ammonia level is acceptable.
NITEH04	4 fl. oz. (118 mL)	Treats up to 236 gal. (893 L)	
NITEH08	8 fl. oz. (236 mL)	Treats up to 472 gal. (1,786 L)	Established tanks: Add 1 tsp. (5 mL) per 10 gal. (38 L) of tank water after every partial water change as well as every time new fish are added to the tank.
NITEH16	16 fl. oz. (473 mL)	Treats up to 946 gal. (3,580 L)	
NITEH64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,515 L)	
NITEHG1	1 gal. (3.78 L)	Treats up to 7,600 gal. (28,769 L)	



MICROBE-LIFT/ Bacterial Water Conditioners*

40 Piece Display - Item #HAD40BAC

CONTENTS

4 pc. - 16 oz. Bacterial Aquarium Balancer
4 pc. - 16 oz. Gel Filter Cartridge Inoculant
4 pc. - 16 oz. Nite-Out II™
4 pc. - 16 oz. Gravel & Substrate Cleaner

16 pc. - 16 oz. bottles

6 pc. - 4 oz. Bacterial Aquarium Balancer
6 pc. - 4 oz. Gel Filter Cartridge Inoculant
6 pc. - 4 oz. Nite-Out II™
6 pc. - 4 oz. Gravel & Substrate Cleaner

24 pc. - 4 oz. bottles



Special Blend** A Complete Ecosystem in a Bottle

- Dramatically reduces need for water changes
- Reduces the frequency of cleaning
- Good for salt and freshwater fish
- Chemical-free!

ITEM #	SIZE	TREATS	DOSAGE RATES
SBH01	1 fl. oz. (30 mL)	Treats a 15 gal. (57 L) tank for up to 12 weeks	see box for details.
SBH04	4 fl. oz. (118 mL)	Treats a 30 gal. (113 L) tank for up to 24 weeks	see box for details.
SBH08	8.5 fl. oz. (251 mL)	Treats a 65 gal. (246 L) tank for up to 32 weeks	see box for details.
SBH16	16 fl. oz. (473 mL)	Treats a 75 gal. (283 L) tank for up to 46 weeks	see box for details.
SBHG1	1 gal. (3.78 L)	Treats a 13,860 gal. (52,465 L) tank for up to 2 weeks	see box for details.

* Please note all bottles in this display will now be black.

** Upon request, when you order the Special Blend or TheraP 4 oz., 8.5 oz., or 16 oz. they will be packed in a display carton (as shown above).



MICROBE-LIFT/ Special Blend/TheraP

12 Piece Display - 8.5oz.

Item #SBTHD08

CONTENTS

6 pc. - 8.5 oz. Special Blend
6 pc. - 8.5 oz. TheraP

12 pc. - 8.5 oz. boxes

MICROBE-LIFT/ Special Blend/TheraP

12 Piece Display - 16oz.

Item #SBTHD16

CONTENTS

6 pc. - 16 oz. Special Blend
6 pc. - 16 oz. TheraP

12 pc. - 16 oz. boxes

MICROBE-LIFT/ Special Blend/TheraP

24 Piece Display - 4oz.

Item #SBTHD04

CONTENTS

12 pc. - 4 oz. Special Blend
12 pc. - 4 oz. TheraP

24 pc. - 4 oz. boxes



TheraP** Increases Resistance to Pathogens & Parasites

- Provides a natural aquarium ecosystem, for better overall fish health and improved water quality
- Good for salt and freshwater fish
- Chemical-free!

ITEM #	SIZE	TREATS	DOSAGE RATES
THERAPH04	4 fl. oz. (118 mL)	Treats a 30 gal. (113 L) tank for up to 24 weeks	see box for details.
THERAPH08	8.5 fl. oz. (251 mL)	Treats a 65 gal. (246 L) tank for up to 32 weeks	see box for details.
THERAPH16	16 fl. oz. (473 mL)	Treats a 75 gal. (283 L) tank for up to 46 weeks	see box for details.
THERAPHG1	1 gal. (3.78 L)	Treats a 13,860 gal. (52,465 L) tank for up to 2 weeks	see box for details.

FLOWERHORN & PARROT FISH

Products



Water Conditioner

- Detoxifies nitrite
- Removes ammonia
- Destroys and removes chloramines
- Removes chlorine
- Detoxifies heavy metals
- Adds a multi-part skin-slime replacer
- Adds essential electrolytes
- Boosts alkalinity

ITEM #	SIZE	TREATS	DOSAGE RATES
WCFP04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 oz. (30 mL) per 60 gal. (227 L).
WCFP08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
WCFP16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	



Bacterial Balancer

- Prevents “new tank syndrome”
- Helps to eliminate ammonia and nitrate
- Provides rapid reduction of organic waste
- Helps to clean power filters, ornaments and gravel
- Helps to reduce fish loss

ITEM #	SIZE	TREATS	DOSAGE RATES
BBFP04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L).
BBFP08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
BBFP16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	



Herbal Bacterial Disease Treatment

Provides a chemical-free treatment effective against bacterial diseases including:

- Bacterial dropsy
- Bulging eyes
- Fungus
- Ulcers
- Milky skin
- Mouth rot
- Fin/tail rot
- Raised scales

ITEM #	SIZE	TREATS	DOSAGE RATES
BDTFP04	4 fl. oz. (118 mL)	Treats 59 gal. (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
BDTFP08	8 fl. oz. (236 mL)	Treats 118 gal. (447 L) for 10 days	
BDTFP16	16 fl. oz. (473 mL)	Treats 236 gal. (893 L) for 10 days	



Herbal Parasitic Disease Treatment

Provides a chemical-free treatment effective against parasitic diseases including:

- White Spot (Ich)
- Costia
- Flukes (gill & skin)
- Trichodina
- Chilodonella
- Oodinium

ITEM #	SIZE	TREATS	DOSAGE RATES
PDTFP04	4 fl. oz. (118 mL)	Treats 59 gal. (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
PDTFP08	8 fl. oz. (236 mL)	Treats 118 gal. (447 L) for 10 days	
PDTFP16	16 fl. oz. (473 mL)	Treats 236 gal. (893 L) for 10 days	

AROWANA FISH CARE
Products



Water Conditioner

- Detoxifies nitrite
- Removes ammonia
- Destroys and removes chloramines
- Removes chlorine
- Detoxifies heavy metals
- Adds a multi-part skin-slime replacer
- Adds essential electrolytes
- Boosts alkalinity



Bacterial Balancer

- Prevents “new tank syndrome”
- Helps to eliminate ammonia and nitrate
- Provides rapid reduction of organic waste
- Helps to clean power filters, ornaments and gravel
- Helps to reduce fish loss

ITEM #	SIZE	TREATS	DOSAGE RATES
WCAR04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 oz. (30 mL) per 60 gal. (227 L).
WCAR08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
WCAR16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
BBAR04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L).
BBAR08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
BBAR16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	



Herbal Bacterial Disease Treatment

Provides a chemical-free treatment effective against bacterial diseases including:

- Bacterial dropsy
- Bulging eyes
- Fungus
- Ulcers
- Milky skin
- Mouth rot
- Fin/tail rot
- Raised scales



Herbal Parasitic Disease Treatment

Provides a chemical-free treatment effective against parasitic diseases including:

- White Spot (Ich)
- Costia
- Flukes (gill & skin)
- Trichodina
- Chilodonella
- Oodinium

ITEM #	SIZE	TREATS	DOSAGE RATES
BDTAR04	4 fl. oz. (118 mL)	Treats 59 gal. (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
BDTAR08	8 fl. oz. (236 mL)	Treats 118 gal. (447 L) for 10 days	
BDTAR16	16 fl. oz. (473 mL)	Treats 236 gal. (893 L) for 10 days	

ITEM #	SIZE	TREATS	DOSAGE RATES
PDTAR04	4 fl. oz. (118 mL)	Treats 59 gal. (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
PDTAR08	8 fl. oz. (236 mL)	Treats 118 gal. (447 L) for 10 days	
PDTAR16	16 fl. oz. (473 mL)	Treats 236 gal. (893 L) for 10 days	

PLANT CARE PRODUCTS



All-In-One Aquatic Plant Supplement

A specialized formula of micro and macro nutrients for aquarium plants

- Essential primary and secondary nutrients
- Vitamins and amino acids
- Nitrate and phosphate-free

ITEM #	SIZE	TREATS	DOSAGE RATES
BNGA02	2 fl. oz. (60 mL)	Treats up to 360 gal. (1,363 L)	Add 1 tsp. (5 mL) per 30 gal. (113 L).
BNGA08	8 fl. oz. (236 mL)	Treats up to 1,440 gal. (5,450 L)	
BNGA16	16 fl. oz. (473 mL)	Treats up to 2,880 gal. (10,901 L)	
BNGA64	64 fl. oz. (1,893 L)	Treats up to 11,520 gal. (43,607 L)	



Bio-Carbon

A breakthrough in carbon source technology that provides cutting edge developments in microbiology and biophysics!

- Contains high quality peat extract
- Contains humic and fulvic acids
- Contains a blend of naturally occurring vegetative and spore-forming microorganisms
- Helps make iron, nitrogen and other nutrients more bioavailable

ITEM #	SIZE	TREATS	DOSAGE RATES
BNGBC04	4 fl. oz. (118 mL)	Treats up to 1,140 gal. (4,315 L)	Initial dose: Add 1 tsp. (5 mL) for every 10 gal. (38 L). Thereafter add 1 tsp. (5 mL) for every 50 gal. (189 L) daily or every other day. Dosing may be slowly increased in high-growth aquariums.
BNGBC08	8 fl. oz. (236 mL)	Treats up to 2,320 gal. (8,782 L)	
BNGBC16	16 fl. oz. (473 mL)	Treats up to 4,690 gal. (17,753 L)	
BNGBC64	64 fl. oz. (1,893 L)	Treats up to 18,890 gal. (71,506 L)	



Phosphorus Aquatic Plant Supplement

- Encourages lush plant growth
- Easy to use liquid supplement
- Nitrate-free

ITEM #	SIZE	TREATS	DOSAGE RATES
BNGPH04	4 fl. oz. (118 mL)	Treats up to 944 gal. (3,573 L)	Use 1/2 tsp. (2.5 mL) per 20 gal. (75 L) once or twice a week or as needed in response of phosphorus deficiency.
BNGPH08	8 fl. oz. (236 mL)	Treats up to 1,888 gal. (7,146 L)	
BNGPH16	16 fl. oz. (473 mL)	Treats up to 3,784 gal. (14,323 L)	
BNGPH64	64 fl. oz. (1,893 L)	Treats up to 15,144 gal. (57,326 L)	



Nitrogen Aquatic Plant Supplement

- Promotes growth of plants
- Easy to use liquid supplement
- Phosphate-free

ITEM #	SIZE	TREATS	DOSAGE RATES
BNGNIT04	4 fl. oz. (118 mL)	Treats up to 1,888 gal. (7,146 L)	Use 1/2 tsp. (2.5 mL) per 40 gal. (151 L) twice a week or as needed, when signs of no growth such as chlorosis.
BNGNIT08	8 fl. oz. (236 mL)	Treats up to 3,776 gal. (14,293 L)	
BNGNIT16	16 fl. oz. (473 mL)	Treats up to 7,568 gal. (28,647 L)	
BNGNIT64	64 fl. oz. (1,893 L)	Treats up to 30,288 gal. (114,652 L)	



Potassium Aquatic Plant Supplement

- Promotes strong roots and stems
- Promotes nutrient uptake
- Helps prevent yellowing
- Nitrate and phosphate-free

ITEM #	SIZE	TREATS	DOSAGE RATES
BNGPO04	4 fl. oz. (118 mL)	Treats up to 708 gal. (2,680 L)	Use 1 tsp. (5 mL) per 30 gal. (113 L).
BNGPO08	8 fl. oz. (236 mL)	Treats up to 1,416 gal. (5,360 L)	
BNGPO16	16 fl. oz. (473 mL)	Treats up to 2,838 gal. (10,742 L)	
BNGPO64	64 fl. oz. (1,893 L)	Treats up to 11,358 gal. (42,994 L)	



Iron Aquatic Plant Supplement

- Brings out vibrant color
- Helps prevent yellowing
- Nitrate and phosphate-free

ITEM #	SIZE	TREATS	DOSAGE RATES
BNGIR04	4 fl. oz. (118 mL)	Treats up to 1,180 gal. (4,466 L)	Use 1 tsp. (5 mL) per 50 gal. (189 L) as needed or required to maintain 0.10 mg/L iron.
BNGIR08	8 fl. oz. (236 mL)	Treats up to 2,360 gal. (8,933 L)	
BNGIR16	16 fl. oz. (473 mL)	Treats up to 4,730 gal. (17,904 L)	
BNGIR64	64 fl. oz. (1,893 L)	Treats up to 18,930 gal. (71,657 L)	

Microbial Root Dip

Enhances Metabolism, Increases Chlorophyll and Nutrient Availability

- Reduces transplant shock
- Aids in disease resistance
- Contains fulvic and humic acids
- Contains beneficial photosynthetic microorganisms



The humic and fulvic substances in **MICROBE-LIFT/BLOOM & GROW™ Microbial Root Dip (ML/MRD)** aid the roots tissues requiring free oxygen for aerobic respiration and provide metabolic energy to the plants the humic and fulvic substances help to increase the production and productivity of the microorganisms. They accentuate plant cell reproduction by stimulating the production of nucleic acids for DNA & RNA activity. The humic & fulvic acids contain auxins which are involved in the chelation of iron for the plant. This helps to improve growth, health and the plants nutrient intensity! **ML/MRD** is non-toxic, non-pathogenic and is safe for all aquatic life.

ITEM #	SIZE	DOSAGE RATES
ROOTA02	2 fl. oz. (60 mL)	Soak plugs with a solution made up of 5 mL (1 capful) of ML/MRD per 1 qt. (1 L) of aquarium water. Soak roots for 15 minutes before transplanting. The solution can then be added to the tank's water.
ROOTA04	4 fl. oz. (118 mL)	

Biologically Alive Substrate for Planted Aquariums

- Contains trace minerals
- Has enormous surface area to colonize nitrifying bacteria
- Provides a suitable medium to hold rooted plants in place
- Natural material (not chemically coated or dyed).
- 10 pounds fills a typical 10 gal. (37.8 L) tank with approximately 2.5 in. (6.35 cm) deep bed of substrate.
- Maximum density- you would require a minimum of twice the weight of competitors substrate to achieve our suggested bed depth!
- Contains over 25 micro and macro nutrients.
- Kiln fired • pH neutral • Retains oxygen • No Compost
- No Fertilizer • No Soil • No Peat

ITEM #	SIZE
BAS10	10 lb. (4.54 kg)
BAS20	20 lb. (9.07 kg)



Substrate image magnified.





Aquarium Salt Crystals

- Helps to reduce the threat of parasite disease
- Improves gill function
- Reduces the effects of nitrite toxicity
- Nitrate & phosphate free
- Contains no additives

ITEM #	SIZE	TREATS	DOSAGE RATES
ASALTSM	11 oz. (312 g)	Treats up to 88 gal. (333 L)	Tropical Fish: Add 1 tbs. (15 mL) per 5 gal. (19 L) of tank water. Goldfish/ Koi Stress Relief: Add 1/2 tsp. (2.5 mL) per gal. (3.8 L) of tank water. Tropical Fish Disease Treatment: Add 2 tbs. (30 mL) per 5 gal. (19 L) of tank water. Symptoms of Parasite diseases: labored breathing, scraping, flashing and clamped fins.
ASALTMD	1 lb. 6 oz. (624 g)	Treats up to 176 gal. (666 L)	
ASALTLG	2 lb. 12 oz. (1.3 kg)	Treats up to 352 gal. (1,332 L)	



Therapeutic Salt

- Contains pure evaporated sea salt
- Reduces fish stress & the risk of osmotic shock
- Improves fish gill function
- Temporarily blocks nitrite toxicity
- Helps to promote slime coat
- Contains allantoin
- Adds essential electrolytes

ITEM #	SIZE	TREATS	DOSAGE RATES
TSALTSM	10 oz. (283 g)	Treats up to 22 gal. (83 L)	Small Tanks: Add 1/2 cup (120 mL) per 10 gal. (38 L) of tank water. Large Tanks: Add 2 1/2 cups (600 mL) per 55 gal. (208 L) of tank water. For Stress Reduction: Add 2 tbs. (30 mL) per 10 gal. (38 L) of tank water. Add 3/4 cups (180 mL) per 55 gal. (208 L) of tank water.
TSALTMD	1 lb. 4 oz. (567 g)	Treats up to 44 gal. (166 L)	
TSALTLG	2 lb. 8 oz. (1.13 kg.)	Treats up to 88 gal. (333 L)	



pH Increase

Combines:

- Two pH adjusters for buffered effectiveness
- Three Electrolytes to help maintain osmotic balance
- One slime coat ingredient for skin protection and stress reduction

ITEM #	SIZE	DOSAGE RATES
PHINF04	4 fl. oz. (118 mL)	Add 2 drops per gal. (3.8 L), or 1 tsp. (5 mL) per 50 gal. (189 L) for each 0.1 unit of pH increase desired.
PHINF08	8 fl. oz. (236 mL)	
PHINF16	16 fl. oz. (473 mL)	
PHINF64	64 fl. oz. (1,893 L)	



pH Decrease

Combines:

- Two pH adjusters for buffered effectiveness
- Three Electrolytes to help maintain osmotic balance
- One slime coat ingredient for skin protection and stress reduction

ITEM #	SIZE	DOSAGE RATES
PHDEF04	4 fl. oz. (118 mL)	Add 2 drops per gal. (3.8 L), or 1 tsp. (5 mL) per 50 gal. (189 L) for each 0.1 unit of pH decrease desired.
PHDEF08	8 fl. oz. (236 mL)	
PHDEF16	16 fl. oz. (473 mL)	
PHDEF64	64 fl. oz. (1,893 L)	



Vitamins & Amino Acids

A blend of all of the essential micro nutrients and minerals required by many freshwater fish but which may not be present in all water sources or may be removed in some aquarium filtration systems.

ITEM #	SIZE	TREATS	DOSAGE RATES
VAAF04	4 fl. oz. (118 mL)	Treats 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. of tank water weekly.
VAAF08	8 fl. oz. (236 mL)	Treats 1,400 gal. (5,299 L)	
VAAF16	16 fl. oz. (473 mL)	Treats 2,800 gal. (10,599 L)	
VAAF64	64 fl. oz. (1,893 L)	Treats 11,200 gal. (42,396 L)	



Clarifier Plus Polymeric Blend

- Clears cloudy and hazy water quickly
- Safe for aquatic life and plants
- Attracts and precipitates suspended particles
- Improves filtration
- Especially helpful after tank disturbances

ITEM #	SIZE	TREATS	DOSAGE RATES
CPF01	1 fl. oz. (30 mL)	Treats up to 120 gal. (454 L)	Add 5 drops per gal. (3.8 L) or 1/2 tsp. (2.5 mL) per 10 gal. (38 L)
CPF04	4 fl. oz. (118 mL)	Treats up to 470 gal. (1,779 L)	
CPF08	8 fl. oz. (236 mL)	Treats up to 940 gal. (3,558 L)	
CPF16	16 fl. oz. (473 mL)	Treats up to 1,875 gal. (7,098 L)	
CPF64	64 fl. oz. (1,893 L)	Treats up to 7,500 gal. (28,390 L)	
CPFG1	1 gal. (3.78 L)	Treats up to 15,000 gal. (56,781 L)	

FRESH WATER Products



MICROBE-LIFT/Fresh Water Conditioners* 40 Piece Display - Item #HAD40FW

CONTENTS
4 pc. - 16 oz. Vitamins & Amino Acids
4 pc. - 16 oz. Clarifier Plus
4 pc. - 16 oz. pH Increase
4 pc. - 16 oz. pH Decrease
16 pc. - 16 oz. bottles
6 pc. - 4 oz. Vitamins & Amino Acids
6 pc. - 4 oz. Clarifier Plus
6 pc. - 4 oz. pH Increase
6 pc. - 4 oz. pH Decrease
24 pc. - 4 oz. bottles



Freshwater Starter Kit* 4 Pack

Item #HA4PKFW

CONTENTS
1 pc. - 4 oz. Vitamins & Amino Acids
1 pc. - 4 oz. pH Increase
1 pc. - 4 oz. pH Decrease
1 pc. - 4 oz. Clarifier Plus
4 pc. - 4 oz. bottles



Algaway 5.4

E.P.A. Registered

- Controls Algae in aquariums
- Fast acting
- Will not harm fish or live ornamental plants
- Freshwater aquariums

ITEM #	SIZE	TREATS
ALGAA01	1 fl. oz. (30 mL)	Treats up to 355 gal. (1,344 L)
ALGAA04	4 fl. oz. (118 mL)	Treats up to 1,419 gal. (5,371 L)
ALGAA08	8 fl. oz. (236 mL)	Treats up to 2,839 gal. (10,745 L)
ALGAA16	16 fl. oz. (473 mL)	Treats up to 5,678 gal. (21,491 L)
ALGAA64	64 fl. oz. (1,893 L)	Treats up to 22,712 gal. (85,981 L)
ALGAAG1	1 gal. (3,785 L)	Treats up to 45,424 gal. (171,948 L)

DOSAGE RATES

Volume of water to treat	Unit of Measure	
5 gallons / 18.9 liters	3 drops	-
10 gallons / 37.8 liters	6 drops	-
25 gallons / 94.5 liters	15 drops	-
30 gallons / 114 liters	18 drops	1/2 tsp. 1/2 cap
50 gallons / 189 liters	30 drops	-
120 gallons / 454.2 liters	10 mL	2 tsp. 2 caps
360 gallons / 1360 liters	30 mL	2 tbsp. 6 caps



NEW Phosphate Remover

- Quickly removes phosphate
- Improves turbidity

ITEM #	SIZE	TREATS	DOSAGE RATES
PRFW04	4 fl. oz. (118 mL)	Treats up to 400 gal. (1,514 L) at a removal rate between 1.0 to 1.5 ppm	See label.
PRFW08	8 fl. oz. (236 mL)	Treats up to 800 gal. (3,028 L) at a removal rate between 1.0 to 1.5 ppm	
PRFW16	16 fl. oz. (473 mL)	Treats up to 1,600 gal. (6,056 L) at a removal rate between 1.0 to 1.5 ppm	
PRFW64	64 fl. oz. (1,893 L)	Treats up to 6,400 gal. (24,226 L) at a removal rate between 1.0 to 1.5 ppm	

* Please note all bottles in the display and kit will now be black.



Ammonia Remover

- Removes ammonia
- Removes chlorine
- Removes chloramines
- Works immediately and will not delay or interrupt biological filtration



ITEM #	SIZE	TREATS	DOSAGE RATES
AR01	1 fl. oz. (30 mL)	Treats up to 60 gal. (227 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 oz. per 60 gal. (227 L)
AR04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	
AR08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
AR16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
AR64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	
ARG1	1 gal. (3.78 L)	Treats up to 7,680 gal. (29,071 L)	



Aquatic Stress Relief

- Reduces stress
- Aids in fish transport
- Promotes healing
- Removes chlorine (up to 3.75 mg/L total chlorine)
- Destroys chloramines
- Detoxifies heavy metals
- Adds a multi-part skin-slime replacer
- Adds essential electrolytes
- Boosts alkalinity



ITEM #	SIZE	TREATS	DOSAGE RATES
SRA01	1 fl. oz. (30 mL)	Treats up to 60 gal. (227 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 oz. per 60 gal. (227 L)
SRA04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	
SRA08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
SRA16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
SRA64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	
SRAG1	1 gal. (3.785 L)	Treats up to 7,680 gal. (29,071 L)	



KH Bio-Active Booster (Carbonate Alkalinity)

Essential for Nitrification

Use for:

- Tap water
- Tank water
- Change water



ITEM #	SIZE	DOSAGE RATES
CABSM	8.8 oz. (250 g)	See label.
CABMD	17.6 oz. (500 g)	
CABLG	35 oz. (1,000 g)	



Super Dechlorinator + Water Conditioner

- Removes chlorine (up to 5 mg/L total chlorine)
- Destroys chloramines
- Detoxifies heavy metals



ITEM #	SIZE	TREATS	DOSAGE RATES
SDCHLA04	4 fl. oz. (118 mL)	Treats up to 1,000 gal. (3,785 L)	Add 1 tsp. (5 mL) per 41.66 gal. (157.7 L) of water. Larger Applications: Add 1 fl. oz. per 250 gal. (946 L) of water.
SDCHLA08	8 fl. oz. (236 mL)	Treats up to 2,000 gal. (7,571 L)	
SDCHLA16	16 fl. oz. (473 mL)	Treats up to 4,000 gal. (15,142 L)	
SDCHLA64	64 fl. oz. (1,893 L)	Treats up to 16,000 gal. (60,566 L)	



Supreme Dry Ammonia Remover & Water Conditioner

Removes & Detoxifies:

- Ammonia
- Chlorine
- Chloramines
- Nitrite
- Heavy metals



ITEM #	SIZE	TREATS	DOSAGE RATES
SDARSM	8.8 oz. (250 g)	Treats up to 4,400 gal. (16,655 L)	For each measure or anticipated, 2.1 ppm total ammonia, add 1 oz. (28 g). Treats 500 gal. (1,892 L) of water. It will remove 2.1 ppm of total ammonia, 6.5 ppm chloramines and 4.5 ppm chlorine.
SDARMD	17.6 oz. (500 g)	Treats up to 8,800 gal. (33,311 L)	
SDARLG	5 lb. (2.26 kg)	Treats up to 40,000 gal. (151,416 L)	

SALT & FRESH WATER



R/O Water Conditioner

Specially formulated to recondition, R/O, deionized or distilled water



ITEM #	SIZE	TREATS	DOSAGE RATES
ROWC04	4 fl. oz. (118 mL)	Treats up to 238 gal. (900 L)	Add 1-2 tsp. (5-10 mL) per 30 gal. (113 L) of water.
ROWC08	8 fl. oz. (236 mL)	Treats up to 475 gal. (1,798 L)	
ROWC16	16 fl. oz. (473 mL)	Treats up to 950 gal. (3,596 L)	
ROWC64	64 fl. oz. (1,893 L)	Treats up to 3,800 gal. (14,384 L)	



Dechlorinator + Water Conditioner

- Removes chlorine (up to 4 mg/L total chlorine)
- Destroys chloramines
- Detoxifies heavy metals
- Adds a multi-part skin-slime replacer
- Adds essential electrolytes
- Boosts alkalinity



XTreme™ A Full-function, Buffered, Water Conditioner

- Detoxifies nitrite
- Destroys and removes chloramines
- Removes ammonia
- Removes chlorine
- Detoxifies heavy metals
- Adds a multi-part skin-slime replacer
- Adds essential electrolytes
- Boosts alkalinity



ITEM #	SIZE	TREATS	DOSAGE RATES
DPWC01	1 fl. oz. (30 mL)	Treats up to 60 gal. (227 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 oz. per 60 gal. (227 L)
DPWC04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	
DPWC08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
DPWC16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
DPWC64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,536 L)	
DPWCG1	1 gal. (3.78 L)	Treats up to 7,680 gal. (29,071 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
XTA01	1 fl. oz. (30 mL)	Treats up to 60 gal. (227 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 oz. per 60 gal. (227 L)
XTA04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	
XTA08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
XTA16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
XTA64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	
XTAG1	1 gal. (3.78 L)	Treats up to 7,680 gal. (29,071 L)	



Salt & Freshwater Starter Kit* 4 Pack

Item #HA4PKFSW



MICROBE-LIFT/Salt & Freshwater Water Conditioners* 40 Piece Display

Item #HAD40WC



CONTENTS
1 pc. - 4 oz. Aquatic Stress Relief
1 pc. - 4 oz. Ammonia Remover
1 pc. - 4 oz. Dechlorinator + Water Conditioner
1 pc. - 4 oz. Bacterial Aquarium Balancer
4 pc. - 4 oz. bottles

CONTENTS
4 pc. - 16 oz. Dechlorinator + Water Conditioner
4 pc. - 16 oz. Ammonia Remover Plus Buffer
4 pc. - 16 oz. XTreme
4 pc. - 16 oz. Aquatic Stress Relief
16 pc. - 16 oz. bottles
6 pc. - 4 oz. Dechlorinator + Water Conditioner
6 pc. - 4 oz. Ammonia Remover Plus Buffer
6 pc. - 4 oz. XTreme
6 pc. - 4 oz. Aquatic Stress Relief
24 pc. - 4 oz. bottles

* Please note all bottles in the display and kit will now be black.

SALT WATER



Mineral Balancer

Replaces trace minerals that are removed through filtration, Carbon and protein skimmers.



ITEM #	SIZE	TREATS	DOSAGE RATES
SWMB04	4 fl. oz. (118 mL)	Treats 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. (113 L)
SWMB08	8 fl. oz. (236 mL)	Treats 1,400 gal. (5,299 L)	
SWMB16	16 fl. oz. (473 mL)	Treats 2,800 gal. (10,599 L)	
SWMB64	64 fl. oz. (1,893 L)	Treats 11,200 gal. (42,396 L)	



Vitamins & Amino Acids

A blend of all of the essential micronutrients and minerals required by many saltwater fish but which may not be present in all water sources or may be removed in some aquarium filtration systems.



ITEM #	SIZE	TREATS	DOSAGE RATES
VAAS04	4 fl. oz. (118 mL)	Treats up to 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. weekly.
VAAS08	8 fl. oz. (236 mL)	Treats up to 1,400 gal. (5,299 L)	
VAAS16	16 fl. oz. (473 mL)	Treats up to 2,800 gal. (10,599 L)	
VAAS64	64 fl. oz. (1,893 L)	Treats up to 11,200 gal. (42,396 L)	



Clarifier Plus Polymeric Blend

- Clears cloudy and hazy water quickly
- Safe for aquatic life and plants
- Attracts and precipitates suspended particles
- Improves filtration
- Especially helpful after tank disturbances

ITEM #	SIZE	TREATS	DOSAGE RATES
CPS04	4 fl. oz. (118 mL)	Treats up to 470 gal. (1,779 L)	Add 1/2 tsp. (2.5 mL) per 10 gal. (38 L).
CPS08	8 fl. oz. (236 mL)	Treats up to 940 gal. (3,558 L)	
CPS16	16 fl. oz. (473 mL)	Treats up to 1,875 gal. (7,098 L)	
CPS64	64 fl. oz. (1,893 L)	Treats up to 7,500 gal. (28,390 L)	
CPSG1	1 gal. (3.78 L)	Treats up to 15,000 gal. (56,781 L)	



pH Increase

Combines:

- Two pH adjusters for buffered effectiveness
- Three electrolytes to help maintain osmotic balance
- One slime coat ingredient for skin protection and stress reduction



ITEM #	SIZE	DOSAGE RATES
PHINS04	4 fl. oz. (118 mL)	Add 1/4 tsp. (1.25 mL) per 10 gal. (38 L) of water for each 0.1 degree of pH increase desired.
PHINS08	8 fl. oz. (236 mL)	
PHINS16	16 fl. oz. (473 mL)	
PHINS64	64 fl. oz. (1,893 L)	Add 2 drops per gal. (3.8 L), or 1 tsp. (5 mL) per 50 gal. (189 L) for each 0.1 degree of pH increase desired.



Saltwater Starter Kit* 4 Pack

Item #HA4PKSW

CONTENTS

- 1 pc. - 4 oz. Vitamins & Amino Acids
- 1 pc. - 4 oz. pH Increase
- 1 pc. - 4 oz. Mineral Balancer
- 1 pc. - 4 oz. Clarifier Plus
- 4 pc. - 4 oz. bottles



MICROBE-LIFT/ Salt Water Conditioners* 40 Piece Display

Item #HAD40SW

CONTENTS

- | | |
|---------------------------------------|--------------------------------------|
| 4 pc. - 16 oz. Vitamins & Amino Acids | 6 pc. - 4 oz. Vitamins & Amino Acids |
| 4 pc. - 16 oz. Clarifier Plus | 6 pc. - 4 oz. Clarifier Plus |
| 4 pc. - 16 oz. Mineral Balancer | 6 pc. - 4 oz. Mineral Balancer |
| 4 pc. - 16 oz. pH Increase | 6 pc. - 4 oz. pH Increase |
| 16pc. - 16 oz. bottles | 24 pc. - 4 oz. bottles |



NEW
Phosphate Remover

- Quickly removes phosphate
- Improves turbidity



ML/PR is harmless to invertebrates, and has been tested with and shown to be safe with most species of marine fish. Fish of the Acanthuridae family (Tangs, Surgeonfish) have shown a sensitivity to this product. We DO NOT recommend the use of ML/PR where these fish are present. Due to that fact that the chemical properties of the water in every aquarium are unique as a result of varying source water quality, the live and inert components introduced into the aquarium, and the chemical treatments used, it is impossible to predict how the product will react in every aquarium environment. If you notice an adverse effect on any of the aquatic life in your aquarium when using the product, discontinue use immediately and perform a partial water change. **DO NOT OVERDOSE. USE ONLY THE AMOUNT DIRECTED FOR YOUR SYSTEM. DOSE FOR THE ACTUAL VOLUME OF WATER, NOT THE TANK CAPACITY.**

ITEM #	SIZE	TREATS	DOSAGE RATES
PRSW04	4 fl. oz. (118 mL)	Treats up to 200 gal. (757 L) at a removal rate between 1.0 to 1.5 ppm	See label.
PRSW08	8 fl. oz. (236 mL)	Treats up to 400 gal. (1,514 L) at a removal rate between 1.0 to 1.5 ppm	
PRSW16	16 fl. oz. (473 mL)	Treats up to 800 gal. (3,028 L) at a removal rate between 1.0 to 1.5 ppm	
PRSW64	64 fl. oz. (1,893 L)	Treats up to 3,200 gal. (12,113 L) at a removal rate between 1.0 to 1.5 ppm	



Reef & Marine Starter Kit #1*
4 Pack

Item #HA4PKR1

CONTENTS
1 pc. - 4 oz. Chelated Iron
1 pc. - 4 oz. Essential Minerals & Trace Elements
1 pc. - 4 oz. Iodide & Bromide
1 pc. - 4 oz. Clarifier Plus
4 pc. - 4 oz. bottles



Reef & Marine Starter Kit #2*
4 Pack

Item #HA4PKR2

CONTENTS
1 pc. - 4 oz. Vitamins & Amino Acids
1 pc. - 4 oz. Calcium Concentrate
1 pc. - 4 oz. Magnesium Supplement
1 pc. - 4 oz. Strontium Molybdenum
4 pc. - 4 oz. bottles



MICROBE-LIFT/Reef & Marine #1*
40 Piece Display - Item #HAD40R1

CONTENTS
4 pc. - 16 oz. Magnesium Supplement
4 pc. - 16 oz. Calcium Concentrate
4 pc. - 16 oz. Chelated Iron
4 pc. - 16 oz. Strontium & Molybdenum
16 pc. - 16 oz. bottles
6 pc. - 4 oz. Magnesium Supplement
6 pc. - 4 oz. Calcium Concentrate
6 pc. - 4 oz. Chelated Iron
6 pc. - 4 oz. Strontium & Molybdenum
24 pc. - 4 oz. bottles



MICROBE-LIFT/Reef & Marine #2*
40 Piece Display - Item #HAD40R2

CONTENTS
4 pc. - 16 oz. All-in-One Master Supplement
4 pc. - 16 oz. Vitamins & Amino Acids
4 pc. - 16 oz. Essential Minerals & Trace Elements
4 pc. - 16 oz. Iodide & Bromide
16 pc. - 16 oz. bottles
6 pc. - 4 oz. All-in-One Master Supplement
6 pc. - 4 oz. Vitamins & Amino Acids
6 pc. - 4 oz. Essential Minerals & Trace Elements
6 pc. - 4 oz. Iodide & Bromide
24 pc. - 4 oz. bottles

REEF & MARINE
Products

* Please note all bottles in the display and kit will now be black.



REEF & MARINE

Products

Products available in various sizes. See chart for details.



Clarifier Plus Show Tank Water Clarifier Polymeric Blend

Quickly clears cloudy water



Strontium & Molybdenum Plus Buffer

ITEM #	SIZE	TREATS	DOSAGE RATES
CPR04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	For cloudy water: Add 2 tsp. (10 mL) per 50 gal. (189 L). For "polishing" water: Add 1 1/2 tsp. (7 mL) per 50 gal. (189 L) weekly.
CPR08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
CPR16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
CPR64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
SM04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	Add 1-2 capfuls (7-14 mL) per 50 gal. (189 L) 1-2 times per week. Each 7 mL capful restores 0.018 mg/L (ppm) of Strontium, and 0.003 mg/L (ppm) of Molybdenum.
SM08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
SM16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
SM64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	



Calcium Concentrate Plus Buffer

Contains over 100,000 mg/L calcium



Vitamins & Amino Acids Plus Buffer

ITEM #	SIZE	TREATS	DOSAGE RATES
CC04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	Add 1-2 capfuls (7-14 mL) per 50 gal. (189 L) 1-2 times per week. Each 7 mL capful restores 3.5 mg/L (ppm) of Calcium.
CC08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
CC16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
CC64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
VAAR04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	Add 1-2 capfuls (7-14 mL) per 50 gal. (189 L) 1-2 times per week.
VAAR08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
VAAR16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
VAAR64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	



Magnesium Supplement

Designed to raise the level of magnesium safely in a marine system and will not upset the ionic balance.

ITEM #	SIZE	DOSAGE RATES
MAG04	4 fl. oz. (118 mL)	Add at the rate of 1 mL per gal. of aquarium or reef capacity daily to bring the level between 1,250 and 1,350 ppm. This will raise the level by 19 ppm on a daily basis as a regular supplement. When not testing add at the rate of 2 capfuls (14 mL) per 50 gal. (189 L) every week for all marine systems.
MAG08	8 fl. oz. (236 mL)	
MAG16	16 fl. oz. (473 mL)	
MAG64	64 fl. oz. (1,893 L)	



Chelated Iron Plus Buffer

Contains Thiamine (B-1)/Cyanocobalamin (B-12)

ITEM #	SIZE	TREATS	DOSAGE RATES
IRON04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	Add 1- 2 capfuls (7-14 mL) per 50 gal. (189 L) 1-2 times per week.
IRON08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
IRON16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
IRON64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	



Essential Minerals & Trace Elements Plus Buffer

ITEM #	SIZE	TREATS	DOSAGE RATES
EMTE04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	Add 1- 2 capfuls (7-14 mL) per 50 gal. (189 L) 1-2 times per week.
EMTE08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
EMTE16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
EMTE64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	



Iodide & Bromide Plus Buffer

ITEM #	SIZE	TREATS	DOSAGE RATES
IODIDE04	4 fl. oz. (118 mL)	Treats up to 590 gal. (2,196 L)	Add 1- 2 capfuls (7-14 mL) per 50 gal. (189 L) 1-2 times per week. Each 7 mL capful restores 0.006 mg/L (ppm) of Iodide, and 0.0006 mg/L (ppm) of Bromide.
IODIDE08	8 fl. oz. (236 mL)	Treats up to 1,180 gal. (4,660 L)	
IODIDE16	16 fl. oz. (473 mL)	Treats up to 2,360 gal. (8,920 L)	
IODIDE64	64 fl. oz. (1,893 L)	Treats up to 9,600 gal. (36,290 L)	



All-In-One Master Supplement

A convenient way of dosing all of our reef & marine supplements in one application

ITEM #	SIZE	TREATS	DOSAGE RATES
ALL04	4 fl. oz. (118 mL)	Treats up to 300 gal. (1,136 L)	Add 2-4 capfuls (14-28 mL) per 50 gal. (189 L), 1-2 times per week as a broad spectrum total-supplement of over 60 components of sea water. Usage may safely be double if desired.
ALL08	8 fl. oz. (236 mL)	Treats up to 600 gal. (2,268 L)	
ALL16	16 fl. oz. (473 mL)	Treats up to 1,200 gal. (4,536 L)	
ALL64	64 fl. oz. (1,893 L)	Treats up to 4,800 gal. (18,144 L)	



REEF & MARINE Products



pH Buffer and KH Alkalinity Supplement

Sets saltwater at a pH of 8.2

ITEM #	SIZE	TREATS	DOSAGE RATES
PH8.2SM	8.8 oz. (250 g)	Treats up to 1,250 gal. (4,725 L)	Use the inpacked teaspoon-scoop and add 1 tsp. (5 g.) per 25 gal. (95 L).
PH8.2MD	17.6 oz. (500 g)	Treats up to 2,500 gal. (9,450 L)	
PH8.2LG	64 oz. /4 lb. (1.81 kg)	Treats up to 9,080 gal. (34,322 L)	



Nano Complete

- Automatically sets pH to 8.2 - 8.3
- An aqueous Nano reef buffer system & an ionically balanced combination of necessary trace elements in one simple system!

ITEM #	SIZE	TREATS	DOSAGE RATES
COM02	2 fl. oz. (60 mL)	Treats up to 236 gal. (893 L)	Add 1/2 tsp. (2.5 mL) per 10 gal. (38 L) each day in the highest flow area in the tank until target Alkalinity is reached.



Complete

- Automatically sets pH to 8.2 - 8.3
- An aqueous reef buffer system & an ionically balanced combination of necessary trace elements in one simple system!

ITEM #	SIZE	TREATS	DOSAGE RATES
COM04	4 fl. oz. (118 mL)	Treats up to 118 gal. (446 L)	Add 2 tsp. (10 mL) per 10 gal. (38 L) each day in the highest flow area in the tank until target Alkalinity is reached.
COM08	8 fl. oz. (236 mL)	Treats up to 236 gal. (892 L)	
COM16	16 fl. oz. (473 mL)	Treats up to 472 gal. (1,784 L)	
COM64	64 fl. oz. (1,893 L)	Treats up to 1,888 gal. (7,136 L)	



Coralline Algae Accelerator

Will Not Promote the Growth of Nuisance Algae

- Contains fine powdered aragonite
- Over 100,000 mg/L calcium
- Added magnesium & iodide

ITEM #	SIZE	TREATS	DOSAGE RATES
CAA04	4 fl. oz. (118 mL)	Treats up to 1,180 gal. (4,467 L)	Add 1 tsp. (5 mL) per 50 gal. (189 L)
CAA08	8 fl. oz. (236 mL)	Treats up to 2,360 gal. (8,934 L)	
CAA16	16 fl. oz. (473 mL)	Treats up to 4,720 gal. (17,867 L)	
CAA64	64 fl. oz. (1,893 L)	Treats up to 18,880 gal. (71,468 L)	



Kalkwasser

- Adds calcium ions required by most reef inhabitants
- Increases alkalinity
- Encourages growth of pink, purple and green Calcareous Algae
- Elevates pH
- Precipitates phosphate

ITEM #	SIZE	TREATS	DOSAGE RATES
KALKSM	16 oz. (454 g)	Treats up to 255 gal. (964 L)	In a bucket of 1 gal. of R/O water, mix 1 - 2 tsp. of powder. Use 4 tsp. for 2 gal. etc. Let the solution settle. The super saturated solution may be poured into the tank in an area of high water flow or preferably dripped in through a dosing system.
KALKMD	64 oz. (1,814 g)	Treats up to 1,020 gal. (3,861 L)	

**AQUARIUM
SALT
MIXES**



Reef Salt

- Manufactured with pharmaceutical grade salts
- Helps to establish a stable pH
- Formulated for use with calcium reactors
- Contains all major, minor, and trace elements required to maintain reef inhabitants

ITEM #	DESCRIPTION	MIXES TO SPECIFIC GRAVITY/SALINITY*	SIZE	WEIGHT	PALLET QTY.
SALTRSM	50 gal. (189 L)	1.025 specific gravity/32.35 ppt salinity	1 gal. (3.78 L) bucket	14.3 lb. (6.50 kg)	80
SALTRMD	140 gal. (529 L)	1.025 specific gravity/32.35 ppt salinity	3.5 gal. (13 L) bucket	40.1 lb. (18.23 kg)	36
SALTRLG	200 gal. (757 L)	1.025 specific gravity/32.35 ppt salinity	5 gal. (18 L) bucket	57.3 lb. (26.05 kg)	36



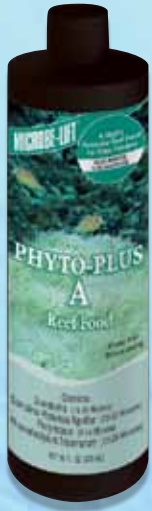
Sea/Marine Salt

- Manufactured with pharmaceutical grade salts
- Helps to establish a stable pH
- Formulated to perfectly mix small and large quantities of water
- Contains all major, minor, and trace elements required to maintain marine fish



ITEM #	DESCRIPTION	MIXES TO SPECIFIC GRAVITY/SALINITY*	SIZE	WEIGHT	PALLET QTY.
SALTMSM	50 gal. (189 L)	1.022 specific gravity/29.8 ppt salinity	1 gal. (3.78 L) bucket	13.6 lb. (6.18 kg)	80
SALTMMD	140 gal. (529 L)	1.022 specific gravity/29.8 ppt salinity	3.5 gal. (13 L) bucket	38.7 lb. (17.59 kg)	36
SALTMLG	200 gal. (757 L)	1.022 specific gravity/29.8 ppt salinity	5 gal. (18 L) bucket	55 lb. (25 kg)	36

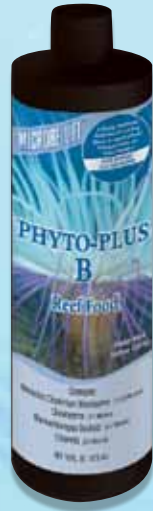
REEF FOODS



Phyto-Plus A Reef Food

- A highly palatable phytoplanktic diet for filter feeders
- SIZE RANGE 9-50 MICRONS

ITEM #	SIZE
PHYTOA04	4 fl. oz. (118 mL)
PHYTOA08	8 fl. oz. (236 mL)
PHYTOA16	16 fl. oz. (473 mL)
PHYTOA64	64 fl. oz. (1,893 L)



Phyto-Plus B Reef Food

- A highly palatable naturally occurring blend of aquacultural phytoplankton for filter feeders
- SIZE RANGE 2-23 MICRONS

ITEM #	SIZE
PHYTOB04	4 fl. oz. (118 mL)
PHYTOB08	8 fl. oz. (236 mL)
PHYTOB16	16 fl. oz. (473 mL)
PHYTOB64	64 fl. oz. (1,893 L)



Zoo-Plus Reef Food

- A highly palatable reef food for filter feeders
- A blend of mysis, daphnia, copepods, & artemia
- SIZE RANGE 800 MICRONS

ITEM #	SIZE
ZOO04	4 fl. oz. (118 mL)
ZOO08	8 fl. oz. (236 mL)
ZOO16	16 fl. oz. (473 mL)
ZOO64	64 fl. oz. (1,893 L)



Highly Concentrated Phyto-Plus A Reef Food

- A highly palatable phytoplanktic diet for filter feeders
- SIZE RANGE 9-50 MICRONS

ITEM #	SIZE
PHYTOA01	1 fl. oz. (30 mL)



Highly Concentrated Phyto-Plus B Reef Food

- A highly palatable naturally occurring blend of aquacultural phytoplankton for filter feeders
- SIZE RANGE 2-23 MICRONS

ITEM #	SIZE
PHYTOB01	1 fl. oz. (30 mL)



Highly Concentrated Zoo-Plus Reef Food

- A highly palatable reef food for filter feeders
- A blend of mysis, daphnia, copepods, & artemia
- SIZE RANGE 800 MICRONS

ITEM #	SIZE
ZOO01	1 fl. oz. (30 mL)



Krill Enhance

- Compliment the range of essential fatty acids, vitamins & minerals in the diet
- Enhance flavor of feeds with high protein content
- Improve taste of oral medications and convalescent diets

ITEM #	SIZE
KRILL04	4 fl. oz. (118 mL)
KRILL08	8 fl. oz. (236 mL)



Garlic Enhance

- Enhance flavor of feeds
- Improve taste of oral medications and convalescent diets

ITEM #	SIZE
GARLIC04	4 fl. oz. (118 mL)
GARLIC08	8 fl. oz. (236 mL)

FLAVOR ENHANCERS

SPECIALTY FISH CARE PRODUCTS

Instructions on the back of the hang cards are in 6 languages: English, Dutch, German, French, Spanish and Italian.

WATER TEST KITS



FRESH WATER

5 in 1

- Nitrate
- Nitrite
- Total hardness
- Total alkalinity
- pH

ITEM #	SIZE
TEST5	Contains 50 Test Strips



FRESH WATER

Ammonia

- Allows you to easily monitor ammonia levels to keep the water quality safe for fish and other aquatic life

ITEM #	SIZE
TESTAMM	Contains 50 Test Strips



SALT WATER

Salt Water Check

- Check the salt levels in your water

ITEM #	SIZE
TESTSALT	Contains 50 Test Strips



SALT & FRESH WATER

Phosphate

- Managing phosphate levels is the most natural way to avoid algae blooms

ITEM #	SIZE
TESTPHOS	Contains 50 Test Strips



Concentrated Krill Enhance

- Food source & attractant for tropical & marine fish

ITEM #	SIZE
KRILL01	1 fl. oz. (30 mL)



Concentrated Garlic Enhance

- Food source & attractant for tropical & marine fish

ITEM #	SIZE
GARLIC01	1 fl. oz. (30 mL)

DRY BUFFER/ STABILIZER

Products



MICROBE-LIFT/pH Buffers #1

12 Piece Display - Item #PHDISP1

CONTENTS

- 4 pc. - 6.5 Fresh Water Buffer/Stabilizer
- 4 pc. - 7.0 Fresh Water Buffer/Stabilizer
- 4 pc. - 7.5 Fresh Water Buffer/Stabilizer

12 pc. - 17.6 oz. (500 g) jars



MICROBE-LIFT/pH Buffers #2

12 Piece Display - Item #PHDISP2

CONTENTS

- 6 pc. - 8.2 Reef & Marine Buffer/Stabilizer
- 6 pc. - 8.5 Fresh Water Buffer/Stabilizer

12 pc. - 17.6 oz. (500 g) jars



Buffer 6.5 pH Sets Freshwater at a pH of 6.5

Use for:

- Tap water
- Tank water
- Change water

ITEM #	SIZE	TREATS	DOSAGE RATES
PH6.5SM	8.8 oz. (250 g)	Treats up to 500 gal. (1,890 L)	To LOWER/HOLD a pH at 6.5: Add 1 scoop (5 g.) per 10 gal. (37.8 L). To RAISE/HOLD a pH at 6.5: Add 1 scoop (5 g.) per 10 gal. (37.8 L).
PH6.5MD	17.6 oz. (500 g)	Treats up to 1,000 gal. (3,780 L)	
PH6.5LG	64 oz. (4 lb.)	Treats up to 3,628 gal. (13,714 L)	



Buffer 7.0 pH Sets Freshwater at a pH of 7.0

Use for:

- Tap water
- Tank water
- Change water

ITEM #	SIZE	TREATS	DOSAGE RATES
PH7.0SM	8.8 oz. (250 g)	Treats up to 500 gal. (1,890 L)	To LOWER/HOLD a pH at 7.0: Add 1 scoop (5 g.) per 10 gal. (37.8 L). To RAISE/HOLD a pH at 7.0: Add 1 scoop (5 g.) per 10 gal. (37.8 L).
PH7.0MD	17.6 oz. (500 g)	Treats up to 1,000 gal. (3,780 L)	
PH7.0LG	64 oz. (4 lb.)	Treats up to 3,628 gal. (13,714 L)	



Buffer 7.5 pH Sets Freshwater at a pH of 7.5

Use for:

- Tap water
- Tank water
- Change water

ITEM #	SIZE	TREATS	DOSAGE RATES
PH7.5SM	8.8 oz. (250 g)	Treats up to 500 gal. (1,890 L)	To LOWER/HOLD a pH at 7.5: Add 1 scoop (5 g.) per 10 gal. (37.8 L). To RAISE/HOLD a pH at 7.5: Add 1 scoop (5 g.) per 10 gal. (37.8 L).
PH7.5MD	17.6 oz. (500 g)	Treats up to 1,000 gal. (3,780 L)	
PH7.5LG	64 oz. (4 lb.)	Treats up to 3,628 gal. (13,714 L)	



Buffer 8.5 pH African Cichlids Sets Freshwater at a pH of 8.5

Use for:

- Tap water
- Tank water
- Change water

ITEM #	SIZE	TREATS	DOSAGE RATES
PH8.5SM	8.8 oz. (250 g)	Treats up to 1,500 gal. (5,670 L)	To RAISE/HOLD a pH at 8.5: Add 1 scoop (5 g.) per 30 gal. (113.5 L). To LOWER/HOLD a pH at 8.5: Add 1/2 scoop (2.5 g.) per 30 gal. (113.5 L).
PH8.5MD	17.6 oz. (500 g)	Treats up to 3,000 gal. (11,340 L)	
PH8.5LG	64 oz. (4 lb.)	Treats up to 10,884 gal. (41,141 L)	



pH Buffer/Stabilizer and KH Alkalinity Supplement

Sets saltwater at a pH of 8.2



ITEM #	SIZE	TREATS	DOSAGE RATES
PH8.2SM	8.8 oz. (250 g)	Treats up to 1,250 gal. (4,725 L)	Use the enclosed teaspoon-scoop and add 1 tsp. (5 g.) per 25 gal. (95 L).
PH8.2MD	17.6 oz. (500 g)	Treats up to 2,500 gal. (9,450 L)	
PH8.2LG	64 oz. (4 lb.)	Treats up to 9,080 gal. (34,322 L)	

ACID & ALKALINE
BUFFER

Products

Liquid



Aqua Alkaline Buffer*

- Adjusts pH higher to any range between 6.0 - 8.7*
- Raises Carbonate Hardness (KH)

*When used in conjunction with Aqua Acid Buffer



Aqua Acid Buffer*

- Adjusts pH lower to any range between 8.7 - 6.0*
- Converts Carbonate Hardness (KH) to CO₂

*When used in conjunction with Aqua Alkaline Buffer

ITEM #	SIZE	TREATS	DOSAGE RATES
ALKB04	4 fl. oz. (118 mL)	Treats up to 59 gal. (223 L)	Add 5 mL for every 2.5 gal. (10 L) of tank volume on a daily basis until the desired pH is obtained. At this dosage, Alkalinity will be raised by about 0.4 meq/L (1.2 dKH).
ALKB08	8 fl. oz. (236 mL)	Treats up to 118 gal. (446 L)	
ALKB16	16 fl. oz. (473 mL)	Treats up to 236 gal. (893 L)	
ALKB64	64 fl. oz. (1,893 L)	Treats up to 944 gal. (3,573 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
ACIDB04	4 fl. oz. (118 mL)	Treats up to 59 gal. (223 L)	Add 5 mL for every 2.5 gal. (10 L) of tank volume on a daily basis until the desired pH is obtained. At this dosage, Alkalinity will be lowered by about 0.08 meq/L (0.3 dKH).
ACIDB08	8 fl. oz. (236 mL)	Treats up to 118 gal. (446 L)	
ACIDB16	16 fl. oz. (473 mL)	Treats up to 236 gal. (893 L)	
ACIDB64	64 fl. oz. (1,893 L)	Treats up to 944 gal. (3,573 L)	

Dry



Alkaline Buffer

- Adjusts pH upward to any range between 5.0 and 8.5*
- Raises Carbonate Hardness (KH)
- Safe for use in planted Aquaria

*When used together with Dry Acid Buffer

ITEM #	SIZE
BUFALKSM	8.8 oz. (250 g)
BUFALKMD	17.6 oz. (500 g)
BUFALKLG	35 oz. (1,000 g)



Acid Buffer

- Adjust pH lower to any range between 8.5 and 5.0*
- Safe for use in planted Aquaria

*When used together with Dry Alkaline Buffer

ITEM #	SIZE
BUFACSM	8.8 oz. (250 g)
BUFACMD	17.6 oz. (500 g)
BUFACLG	35 oz. (1,000 g)

* Please note bottles will now be black.

SPECIALTY FISH CARE PRODUCTS



Discus 40 Piece Display MICROBE-LIFT/Water Conditioners*

Item #HAD40DIS

CONTENTS

- 4 pc. - 16 oz. Discus Vitamins & Amino Acids
- 4 pc. - 16 oz. Discus Proper Water Chemistry
- 4 pc. - 16 oz. Amazon Black & Soft Water Conditioner
- 4 pc. - 16 oz. Amazon Bio-Colorant
- 16 pc. - 16 oz. bottles
- 6 pc. - 4 oz. Discus Vitamins & Amino Acids
- 6 pc. - 4 oz. Discus Proper Water Chemistry
- 6 pc. - 4 oz. Amazon Black & Soft Water Conditioner
- 6 pc. - 4 oz. Amazon Bio-Colorant
- 24 pc - 4 oz. bottles



Discus Proper Water Chemistry

Replaces trace minerals: Sodium, Magnesium, Calcium and Potassium Salts and all necessary minor and trace minerals.

ITEM #	SIZE	TREATS	DOSAGE RATES
DWC04	4 fl. oz. (118 mL)	Treats 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. (113 L) of tank water weekly.
DWC08	8 fl. oz. (236 mL)	Treats 1,400 gal. (5,299 L)	
DWC16	16 fl. oz. (473 mL)	Treats 2,800 gal. (10,599 L)	
DWC64	64 fl. oz. (1,893 L)	Treats 11,200 gal. (42,396 L)	



Discus Vitamins & Amino Acids

Replaces vitamins & amino acids

ITEM #	SIZE	TREATS	DOSAGE RATES
VAAD04	4 fl. oz. (118 mL)	Treats 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. (113 L) of tank water weekly.
VAAD08	8 fl. oz. (236 mL)	Treats 1,400 gal. (5,299 L)	
VAAD16	16 fl. oz. (473 mL)	Treats 2,800 gal. (10,599 L)	
VAAD64	64 fl. oz. (1,893 L)	Treats 11,200 gal. (42,396 L)	

DISCUS Products



Amazon Black & Soft Water Conditioner

Specially formulated to reproduce the soil rich benefits of the Amazon water conditions.

ITEM #	SIZE	TREATS	DOSAGE RATES
ABWC04	4 fl. oz. (118 mL)	Treats 118 gal. (446 L)	Add 2 tsp. (10 mL) per 10 gal. (38 L) of tank water weekly.
ABWC08	8 fl. oz. (236 mL)	Treats 236 gal. (893 L)	
ABWC16	16 fl. oz. (473 mL)	Treats 472 gal. (1,786 L)	
ABWC64	64 fl. oz. (1,893 L)	Treats 1,888 gal. (7,146 L)	



Amazon Bio-Colorant

Specially formulated to reproduce the darker waters of the Amazon.

ITEM #	SIZE	DOSAGE RATES
ABC04	4 fl. oz. (118 mL)	Add 1 mL to a bucket of water for every gal. of tank water.
ABC08	8 fl. oz. (236 mL)	
ABC16	16 fl. oz. (473 mL)	



Discus Starter Kit* 4 Pack

Item #HA4PKDIS

CONTENTS
1 pc. - 4 oz. Discus Vitamins & Amino Acids
1 pc. - 4 oz. Discus Proper Water Chemistry
1 pc. - 4 oz. Amazon Bio-Colorant
1 pc. - 4 oz. Amazon Black & Soft Water Conditioner
4 pc. - 4 oz. bottles



Amazon Buffer for Discus

- Helps maintain the proper pH for Discus
- Establishes and maintains pH range between 5.5-6.8
- Encourages natural behavior and breeding

ITEM #	SIZE	TREATS	DOSAGE RATES
BUFDISSM	8.8 oz. (250 g)	Treats up to 833 gal. (3,153 L)	Test the pH of the water prior to dosing. If the water pH and the desired pH is different by more than 0.4 then first adjust the pH gradually with pH Increase or Decrease to get it closer to the target. Then add 1 level scoop per 20 gals. (75 L). To maintain, treat water once a month with water change or when testing shows a pH change of more than 0.2.
BUFDISMD	17.6 oz. (500 g)	Treats up to 1,666 gal. (6,306 L)	
BUFDISLG	35 oz. (1,000 g)	Treats up to 3,333 gal. (12,616 L)	

* Please note all bottles in these displays and kits will now be black.



CICHLID Products



Cichlid Proper Water Chemistry

Replaces trace minerals: Sodium, magnesium, calcium and potassium salts and all necessary minor and trace minerals.

ITEM #	SIZE	TREATS	DOSAGE RATES
CPWC04	4 fl. oz. (118 mL)	Treats 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. (113 L) of tank water weekly.
CPWC08	8 fl. oz. (236 mL)	Treats 1,400 gal. (5,299 L)	
CPWC16	16 fl. oz. (473 mL)	Treats 2,800 gal. (10,599 L)	
CPWC64	64 fl. oz. (1,893 L)	Treats 11,200 gal. (42,396 L)	



Cichlid Vitamins & Amino Acids

Replaces vitamins & amino acids.

ITEM #	SIZE	TREATS	DOSAGE RATES
VAAC04	4 fl. oz. (118 mL)	Treats 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gals. (113 L) of tank water weekly.
VAAC08	8 fl. oz. (236 mL)	Treats 1,400 gal. (5,299 L)	
VAAC16	16 fl. oz. (473 mL)	Treats 2,800 gal. (10,599 L)	
VAAC64	64 fl. oz. (1,893 L)	Treats 11,200 gal. (42,396 L)	



North & Central American Cichlid Salt

- Helps replicate the waters in which cichlids from this region live
- Contains all major, minor and trace elements found in these waters
- Promotes growth and health

ITEM #	SIZE
SALTCNSM	8.8 oz. (250 g)
SALTCNMD	17.6 oz. (500 g)
SALTCNLG	35 oz. (1,000 g)



South American Cichlid Salt

- Helps replicate the waters in which cichlids from this region live
- Contains all major, minor and trace elements found in these waters
- Promotes growth and health

ITEM #	SIZE
SALTCSSM	8.8 oz. (250 g)
SALTCSMMD	17.6 oz. (500 g)
SALTCSLG	35 oz. (1,000 g)



Tanganyika Cichlid Salt

- Replicates the natural waters of lake Tanganyika
- Contains all major, minor and trace elements found in these waters
- Promotes growth and health

ITEM #	SIZE
SALCTSM	8.8 oz. (250 g)
SALCTMD	17.6 oz. (500 g)
SALCTLGL	35 oz. (1,000 g)



Malawi/Victoria Cichlid Salt

- Replicates the natural waters of lakes Malawi and Victoria
- Contains all major, minor and trace elements found in these waters
- Promotes growth and health

ITEM #	SIZE
SALTCMVSM	8.8 oz. (250 g)
SALTCMVMD	17.6 oz. (500 g)
SALTCMVLG	35 oz. (1,000 g)



Cichlid 40 Piece Display MICROBE-LIFT/ Water Conditioners*

Item #HAD40CIC



Cichlid Starter Kit* 4 Pack

Item #HA4PKCIC

CONTENTS	
4 pc. - 16 oz. Cichlid Vitamins & Amino Acids	6 pc. - 4 oz. Cichlid Vitamins & Amino Acids
4 pc. - 16 oz. Cichlid Proper Water Chemistry	6 pc. - 4 oz. Cichlid Proper Water Chemistry
4 pc. - 16 oz. Amazon Black & Soft Water Conditioner	6 pc. - 4 oz. Amazon Black & Soft Water Conditioner
4 pc. - 16 oz. Amazon Bio-Colorant	6 pc. - 4 oz. Amazon Bio-Colorant
16 pc. - 16 oz. bottles	24 pc - 4 oz. bottles

CONTENTS	
1 pc. - 4 oz. Cichlid Vitamins & Amino Acids	
1 pc. - 4 oz. Cichlid Proper Water Chemistry	
1 pc. - 4 oz. Amazon Black & Soft Water Conditioner	
1 pc. - 4 oz. Amazon Bio-Colorant	
4 pc. - 4 oz. bottles	



Rift Lake Buffer for Tanganyika Cichlids

- Helps maintain the proper pH for cichlids found in lake Tanganyika
- Establishes and maintains pH range between 8.0 and 8.5

ITEM #	SIZE
BUFACTSM	8.8 oz. (250 g)
BUFACTMD	17.6 oz. (500 g)
BUFACTLG	35 oz. (1,000 g)



Rift Lake Buffer for Malawi/Victoria Cichlids

- Helps maintain the proper pH for cichlids found in lakes Malawi and Victoria
- Establishes and maintains pH range between 8.0 and 8.2

ITEM #	SIZE
BUFCMVSM	8.8 oz. (250 g)
BUFCMVMD	17.6 oz. (500 g)
BUFCMVLG	35 oz. (1,000 g)



North & Central American Cichlid Buffer

- Helps maintain the proper pH for cichlids found in the waters of North and Central America
- Establishes and maintains pH range between 7.2 and 7.8

ITEM #	SIZE
BUFCNSM	8.8 oz. (250 g)
BUFCNMD	17.6 oz. (500 g)
BUFCNLG	35 oz. (1,000 g)



South American Cichlid Buffer

- Helps maintain the proper pH for cichlids found in the waters of South America
- Establishes and maintains pH range between 6.5 and 7.2

ITEM #	SIZE
BUFCSSM	8.8 oz. (250 g)
BUFCSMD	17.6 oz. (500 g)
BUFCSLG	35 oz. (1,000 g)

* Please note all bottles in these displays and kits will now be black.

SPECIALTY FISH CARE PRODUCTS



BETTA CARE Products



Betta Bowl Care

- Neutralizes chlorine
- Destroys chloramines
- Detoxifies heavy metals

ITEM #	SIZE	TREATS	DOSAGE RATES
CAREB02	2 fl. oz. (60 mL)	Treats up to 12 gal. (45 L)	Add 1 tsp. (5 mL) per 1 gal. (3.78 L) of tap water.



Exotic Betta Care



- Provides soothing topical emollients and slime coat conditioners
- Supplies essential electrolytes
- Neutralizes chlorine, chloramines, and heavy metals
- Removes ammonia

ITEM #	SIZE	TREATS	DOSAGE RATES
CAREBE01	1 fl. oz. (30 mL)	Treats up to 6 gal. (22 L)	Add 10 drops per 1/2 gal. (1.9 L) or 1 tsp. (5 mL) per 1 gal. (3.78 L) of water.
CAREBE02	2 fl. oz. (60 mL)	Treats up to 12 gal. (45 L)	



Goldfish 40 Piece Display MICROBE-LIFT/Water Conditioners*

Item #HAD40GF

CONTENTS		
8 pc. - 16 oz. Goldfish Color Enhancer	12 pc. - 2 oz. Goldfish Bowl Care	6 pc. - 4 oz. Goldfish Color Enhancer
8 pc. - 16 oz. Goldfish Water Conditioner		6 pc. - 4 oz. Goldfish Water Conditioner
16 pc. - 16 oz. bottles	12 pc. - 2 oz. bottles	12 pc. - 4 oz. bottles



Goldfish Starter Kit* 4 Pack

Item #HA4PKGF

CONTENTS
1 pc. - 4 oz. Goldfish Color Enhancer
1 pc. - 4 oz. Goldfish Water Conditioner
1 pc. - 4 oz. pH Decrease
1 pc. - 4 oz. pH Increase
4 pc. - 4 oz. bottles

* Please note all bottles in these displays and kits will now be black.



GOLDFISH CARE

Products



Goldfish Water Conditioner

- Provides triple slime coat protection
- Neutralizes chlorine

ITEM #	SIZE	TREATS	DOSAGE RATES
GWC04	4 fl. oz. (118 mL)	Treats up to 472 gal. (1,786 L)	Add 1/4 tsp. (1.25 mL) which neutralizes 4 ppm of chlorine per 5 gal. (19 L), or 1 tsp. (5 mL) per 20 gal. (75 L) of all new or replacement water.
GWC08	8 fl. oz. (236 mL)	Treats up to 944 gal. (3,573 L)	
GWC16	16 fl. oz. (473 mL)	Treats up to 1,892 gal. (7,161 L)	



Exotic Goldfish Care



- Conditions goldfish water to protect and maintain delicate fins and skin
- Provides soothing topical emollients and slime coat conditioners
- Supplies essential electrolytes
- Neutralizes chlorine, chloramines and heavy metals
- Removes ammonia

ITEM #	SIZE	TREATS	DOSAGE RATES
CAREGE04	4 fl. oz. (118 mL)	Treats up to 236 gal. (893 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L) or 1 oz. (30 mL) per 60 gal. (227 L) of water.
CAREGE08	8 fl. oz. (236 mL)	Treats up to 472 gal. (1,786 L)	
CAREGE16	16 fl. oz. (473 mL)	Treats up to 946 gal. (3,580 L)	



Goldfish Color Enhancer

Vitamins & Amino Acids

Brings out color and vigor, as well as, providing essential vitamins & amino acids

ITEM #	SIZE	TREATS	DOSAGE RATES
GCE04	4 fl. oz. (118 mL)	Treats up to 700 gal. (2,649 L)	Add 1 tsp. (5 mL) per 30 gal. (113 L) of tank water weekly.
GCE08	8 fl. oz. (236 mL)	Treats up to 1,400 gal. (5,299 L)	
GCE16	16 fl. oz. (473 mL)	Treats up to 2,800 gal. (10,599 L)	



Goldfish Bowl Care

- Neutralizes chlorine
- Destroys chloramines
- Detoxifies heavy metals

ITEM #	SIZE	TREATS	DOSAGE RATES
CAREG02	2 fl. oz. (60 mL)	Treats up to 12 gal. (45 L)	Add 1 tsp. (5 mL) per 1 gal. (3.78 L) of tap water.

Introducing two 100% NATURAL HERBAL EXPELLANT Water Conditioners for a Natural Aquatic Environment!



MICROBE-LIFT/Artemiss

MICROBE-LIFT/Artemiss is a unique, herbal, immune-enhancing stimulant, which reduces bacterial and fungal infections in fish showing symptoms, such as: fin and tail rot, ulcers, bulging eyes (Exophthalmia), milky skin, raised scales, mouth rot/fungus and dropsy (Ascites).

MICROBE-LIFT/Artemiss will help boost the natural immune system of the fish with no risk of building up future resistance, as can occur when antibiotics are used.

MICROBE-LIFT/Artemiss will help to drive pathogenic bacteria off the fish and, without a host, ultimately results in the death of the bacteria.

MICROBE-LIFT/Artemiss is effective at reducing bacterial infections as well as ulcers and wounds, which often occur on goldfish. Regular antibiotics may kill non-resistant bacteria, but will not heal ulcers and will leave an open wound or ulcer sensitive to reinfection. Even with deep ulcers— and in a surprisingly short time span— **MICROBE-LIFT/Artemiss** additionally stimulates and accelerates regeneration of damaged tissue until no trace of the wound remains. So even if an antibiotic treatment is used you should also use **MICROBE-LIFT/Artemiss** to minimize reinfection.

MICROBE-LIFT/Artemiss can be used directly in any tank and is safe for all aquatic life. It is also a great aide to use when acclimating fish to a new environment.

Antibiotic treatments pose many problems for water quality as well as kill nitrifying bacteria in the biofilter so that daily water changes become necessary in order to prevent ammonia poisoning.

Q: If **MICROBE-LIFT/Herbtana** and **Artemiss** do not kill off nitrifying bacteria in the filter, how are they still affective against pathogenic bacteria?

A: **MICROBE-LIFT/Herbtana** and **Artemiss** are not biocides! They are natural immune system stimulants. Being such, when either product is used, no bacterial populations are affected in the water or filtration system.

MICROBE-LIFT/Herbtana and **Artemiss** do not degrade water quality— saving you both time and money. During treatment with these products, your fish can be fed normally and filtration can remain in normal operation, all aiding the well-being and recovery of your fish. Although using a quarantine tank will always be safer and more economical **MICROBE-LIFT/Herbtana** and **Artemiss** can be safely used in community tanks.



REEF & MARINE

Artemiss™*

Provides a chemical-free treatment effective against bacterial diseases including:

- Bacterial dropsy
- Fungus
- Milky skin
- Fin/tail rot
- Bulging eyes
- Ulcers
- Mouth rot
- Raised scales



FRESH WATER

Artemiss™*

Provides a chemical-free treatment effective against bacterial diseases including:

- Bacterial dropsy
- Fungus
- Milky skin
- Fin/tail rot
- Bulging eyes
- Ulcers
- Mouth rot
- Raised scales

ITEM #	SIZE	TREATS	DOSAGE RATES
ARTSW04	4 fl. oz. (118 mL)	Treats 59 gal (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
ARTSW08	8 fl. oz. (236 mL)	Treats 118 gal (447 L) for 10 days	
ARTSW16	16 fl. oz. (473 mL)	Treats 236 gal (893 L) for 10 days	

ITEM #	SIZE	TREATS	DOSAGE RATES
ARTFW04	4 fl. oz. (118 mL)	Treats 59 gal (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
ARTFW08	8 fl. oz. (236 mL)	Treats 118 gal (447 L) for 10 days	
ARTFW16	16 fl. oz. (473 mL)	Treats 236 gal (893 L) for 10 days	

Caution:

Do not use with any other medications or treatments.
Do not use with any algacides or copper based products.
Remove any carbon in your system as carbon will filter out the Natural Expellants.

MICROBE-LIFT/Herbtana

MICROBE-LIFT/Herbtana is a unique, herbal, immune-enhancing stimulant, which reduces: skin flukes (*Gyrodactylus sp.*), gill flukes (*Dactylogyrus sp.*), Ich (*Ichthyophthirius multifiliis*), *Oodinium sp.*, *Costia sp.* (*Ichthyobodo nectar*), *Chilodonella sp.* and *Trichodina sp.* Parasitic infections are characterized by symptoms, such as: milky skin, flashing and heavy breathing. However, they can only be diagnosed with certainty through microscopic examination.

Naturally controlled by the fish's immune system, parasites are present on most fish in very low levels at all times. When stress levels increase, the ability of the immune system to respond to its requirement to control the natural level of parasites is directly affected. This poor response allows parasites to increase in number, thus causing any of the serious, above mentioned health issues in the host fish. **MICROBE-LIFT/Herbtana** supports the fish's immune system, driving off the excess parasites. Since they cannot return to the fish during treatment, the majority of the parasites will starve without a host.



Q: Why should I use **MICROBE-LIFT/Herbtana** and **MICROBE-LIFT/Artemiss** instead of antibiotics and other treatments?

A: Antibiotics, antiparasitics or chemotherapeutics:

- Can kill the nitrifying biofilter which results in water quality problems
- May result in the development of resistant bacteria
- Can lower the activity of the fish's immune system
- May have negative impact on sensitive fish species and plants
- Can affect silicone sealing

Benefits of MICROBE-LIFT/Herbtana and MICROBE-LIFT/Artemiss

- 100% Natural
- Do not result in resistance
- Nontoxic
- Environmentally friendly
- Artemiss is effective against pathogenic bacteria such as *Aeromonas sp.*, *Pseudomonas sp.*, *Cytophaga/ Flavobacterium/ Flexibacter sp.*, and also many antibiotic-resistant bacteria strains
- Herbtana is effective against parasites such as *Gyrodactylus sp.*, *Dactylogyrus sp.*, *Chilodonella sp.*, *Trichodina sp.*, *Ichthyophthirius multifiliis*, *Ichthyobodo nectar* and *Oodinium sp.*
- When used as directed is safe for all salt, fresh and brackish water fish. Also reef safe and safe for plants.
- Do not affect nitrifying bacteria (biofilter bacteria)
- Do not color the water or stain or affect silicone sealings
- No harmful residues **MICROBE-LIFT/Herbtana** and **Artemiss** are completely biodegradable
- More effective than home remedies

In most cases, fish diseases are caused by bad living conditions, such as: overcrowding, poor water quality or an improper biotope. To prevent recurrence, examine the underlying cause of the problem. Quarantine new fish for at least 4 weeks.

When water is poor, the immune system of the fish cannot be enhanced by **MICROBE-LIFT/Herbtana** or **Artemiss**. Ammonia and Nitrite should not be above 0.4 ppm and the pH must be on a level suitable for the particular species of fish.



REEF & MARINE

Herbtana™*

Provides a chemical-free treatment effective against parasitic diseases including:

- White spot (Ich)
- Costia
- Flukes (gill & skin)
- Trichodina
- Oodinium
- Chilodonella

**Reef Safe
Against
Saltwater
Ich!**



FRESH WATER

Herbtana™*

Provides a chemical-free treatment effective against parasitic diseases including:

- White spot (Ich)
- Costia
- Flukes (gill & skin)
- Trichodina
- Oodinium
- Chilodonella

ITEM #	SIZE	TREATS	DOSAGE RATES
HERBSW04	4 fl. oz. (118 mL)	Treats 59 gal (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
HERBSW08	8 fl. oz. (236 mL)	Treats 118 gal (447 L) for 10 days	
HERBSW16	16 fl. oz. (473 mL)	Treats 236 gal (893 L) for 10 days	

ITEM #	SIZE	TREATS	DOSAGE RATES
HERBFW04	4 fl. oz. (118 mL)	Treats 59 gal (223 L) for 10 days	Add 1 mL for 5 gal. (19 L), or add 5 mL for 25 gal. (95 L), for 10 days.
HERBFW08	8 fl. oz. (236 mL)	Treats 118 gal (447 L) for 10 days	
HERBFW16	16 fl. oz. (473 mL)	Treats 236 gal (893 L) for 10 days	

Introducing two 100% NATURAL HERBAL EXPELLANT Water Conditioners

for a Natural Aquatic Environment!

CONCENTRATED FORMULAS

For Professional &
In-Store Use,
Tranishippers & Fish Farms
Not for Resale



Artemiss™

Provides a chemical-free treatment effective against bacterial diseases including:

- Bacterial dropsy
- Fungus
- Milky skin
- Fin/tail rot
- Bulging eyes
- Ulcers
- Mouth rot

ITEM # ARTEMISS Freshwater	ITEM # HERBTANA Freshwater	SIZE	TREATS	DOSAGE RATES
ARTFWCG1	HERBFWCG1	1 gal. (3.78 L)	Treats 9,462 gal. (35,817 L) for 10 days	Add 1 mL per 25 gal. (95 L) daily for 10 days, or add 1 tsp. (5 mL) per 125 gal. (473 L) daily for 10 days. In severe cases, a longer treatment period may be required until visible results are achieved.
ARTFWCG2.5	HERBFWCG2.5	2.5 gal. (9.46 L)	Treats 23,655 gal. (89,543 L) for 10 days	

REEF & MARINE



Herbtana™

Provides a chemical-free treatment effective against parasitic diseases including:

- White spot (Ich)
- Costia
- Flukes (gill & skin)
- Trichodina
- Oodinium
- Chilodonella

**Reef Safe
Against
Saltwater
Ich!**

ITEM # ARTEMISS Reef & Marine	ITEM # HERBTANA Reef & Marine	SIZE	TREATS	DOSAGE RATES
ARTSWCG1	HERBSWCG1	1 gal. (3.78 L)	Treats 9,462 gal. (35,817 L) for 10 days	Add 1 mL per 25 gal. (95 L) daily for 10 days, or add 1 tsp. (5 mL) per 125 gal. (473 L) daily for 10 days. In severe cases, a longer treatment period may be required until visible results are achieved.
ARTSWCG2.5	HERBSWCG2.5	2.5 gal. (9.46 L)	Treats 23,655 gal. (89,543 L) for 10 days	



Bulk Mini Pads No Liquid Bacteria

- Allows for high water flow without clogging
- Fits into most filters and skimmers
- Traps suspended dirt and debris
- Put into "Master" media bags for direct placement in the sump
- May be replaced or cleaned

ITEM #	SIZE	TREATS	DOSAGE RATES
BSPADA500	500 pc. box	See label	The quantity to use is limited only by the design and capacity of your filter.
BSPADA1000	1,000 pc. box		

Pre-Colonized
with Beneficial
Bacteria



Biological Mini Pads

- Allows for high water flow without clogging
- Fits into most filters and skimmers
- Traps suspended dirt and debris
- May be replaced or cleaned and re-colonized
- Put into "Master" media bags for direct placement in your aquarium

ITEM #	SIZE	DOSAGE RATES
BMP	100 Biological Mini Pads, 96 oz. of Nite-Out II Bacteria	After cleaning be sure to re-colonize the Biological Mini Pads by soaking in MICROBE-LIFT/ Nite-Out II™, nitrifying bacteria for immediate nitrification. For best results change every 4 months.

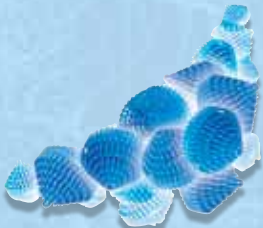
**EASY
MAINTENANCE**
Products



Soy-Based Ornament & Artificial Plant Cleaner

- Safe & Non-Toxic
- Specially formulated to safely clean: artificial plants, aquarium decorations, rocks and artificial coral
- Leaves no toxic residue

ITEM #	SIZE
ORC08	8 fl. oz. (236 mL)
ORC32	32 fl. oz. (946 mL)



Bulk Pinballs No Liquid Bacteria

- Ideal for nitrifying bacteria to colonize and thrive on
- 2 gallons (148 pre-colonized balls) has over 22,000 pins, 40 sq. ft. of surface area
- Fits most skimmers and filters

ITEM #	SIZE	TREATS	DOSAGE RATES
BBALLA125	125 pc. box	1 cubic ft. = 600 Pinballs	The quantity to use is limited only by the design and capacity of your filter.
BBALLA250	250 pc. box		
BBALLA500	500 pc. box		
BBALLA1000	1,000 pc. box		
BBALLA2000	2,000 pc. box		

Pre-Colonized
with Beneficial
Bacteria



Biological Ceramic Rings In pre-packed media bags

- Porous structure gives these rings many times more surface area than other media
- Optimum surface area supports large bacterial colonies
- Does not break down like other media

ITEM #	SIZE	DOSAGE RATES
BCR	3- 2 lb. pre-colonized bags of ceramic rings, 64 oz. of liquid Nite-Out II Bacteria	The Biological Ceramic Rings may be recharged by cleaning monthly. After cleaning be sure to re-colonize the Biological Ceramic Rings by soaking in MICROBE-LIFT/ Nite-Out II™, nitrifying bacteria for immediate nitrification. For best results change the bags every 4-6 months. Place at the final stage of filtration or place in "Master" Media Bags directly into your filter or sump. Use 1 bag for up to 150 gal. of water. Test your water weekly!

Pre-Colonized
with Beneficial
Bacteria



Biological Pin Balls

- Ideal for nitrifying bacteria to colonize and thrive on
- 1 gallon (74 pre-colonized pin balls, 96 oz. Nite-Out II Bacteria)
- Fits most skimmers and filters

ITEM #	SIZE	DOSAGE RATES
BPB	74 pcs. of pre-colonized pin balls, 96 oz. Nite-Out II Bacteria	The quantity to use is limited only by the design and capacity of your filter.

EASY MAINTENANCE Products

Pre-Colonized
with Beneficial
Bacteria



Activated Carbon

Benefits of Activated Carbon

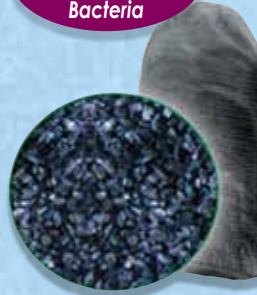
- Removes odors & colors
- Removes medications & organic pollutants
- Removes liquefied impurities
- Highest grade available
- Lasts twice as long as most carbons

Benefits of Bacterial Pre-Colonization

- Reduces carbon fouling
- Improves organic filtration efficiency
- Enhances nitrification
- Extends carbon life

ITEM #	SIZE	DOSAGE RATES
CARASM	5 oz. (141 g)	Average use: Add 1- 1.5 oz. per 10 gal. (38 L) of water
CARAMD	10 oz. (283 g)	
CARALG	1 lb. 4 oz. (567 g)	

Pre-Colonized
with Beneficial
Bacteria



Super Activated Carbon In pre-packed 1 lb. media bags

- Removes odors & colors
- Removes medication & organic pollutants
- Removes liquefied impurities
- Highest grade available
- Lasts twice as long as most carbons
- Treats twice as much as most carbons

ITEM #	SIZE	DOSAGE RATES
CARA1	20 pc.- 1 lb. pre-packed nylon bags	Typically: Add 5 oz. per 100 gal. of water for 2-3 months.

Pre-Colonized
with Beneficial
Bacteria



Zeolite

Benefits of Zeolite

- Removes ammonia
- Improves water quality
- Reduces fish stress
- Protects against ammonia spikes

Benefits of Bacterial Pre-Colonization

- Reduces fouling
- Improves organic filtration efficiency
- Enhances nitrification
- Extends zeolite life

ITEM #	SIZE	DOSAGE RATES
ZEOASM	9 oz. (255 g)	Average use: Add 2-3 oz. per 10 gal. of water.
ZEOAMD	1 lb. 2 oz. (510 g)	
ZEOALG	2 lb. 4 oz. (1,021 g)	

Pre-Colonized
with Beneficial
Bacteria



Zeolite

In pre-packed 2 lb. media bags

- Removes Ammonia
- Improves water quality
- Reduces fish stress
- Protects against ammonia spikes

ITEM #	SIZE	DOSAGE RATES
ZEOA2	20 pc.- 2 lb. pre-packed nylon bags	Add 9 oz. per 100 gal.

Pre-Colonized with Beneficial Bacteria



Activated Carbon & Zeolite Double Chemical Filtration

Benefits of Activated Carbon

- Removes medication & organic pollutants
- Removes liquefied impurities
- Helps clear turbid water

Benefits of Zeolite

- Removes ammonia
- Improves water quality
- Reduces fish stress
- Removes odors & colors

Benefits of Bacterial Pre-Colonization

- Improves organic filtration efficiency
- Enhances nitrification
- Extends carbon life

ITEM #	SIZE	DOSAGE RATES
CARZASM	7 oz. (198 g)	Average use: Add 2-3 oz. per 10 gal. (38 L) of water
CARZAMD	14 oz. (397 g)	
CARZALG	1 lb. 12 oz. (974 g)	

Pre-Colonized with Beneficial Bacteria



Carbon Pellets & Zeolite In pre-packed 2 lb. media bags

- Removes ammonia
- Improves water quality
- Reduces fish stress
- Removes odors & colors
- Removes medication & organic pollutants
- Removes liquefied impurities
- Helps clear turbid water

ITEM #	SIZE	DOSAGE RATES
CARZA2	20 pc.- 2 lb. pre-packed nylon bags	Typically: Add 7 oz. per 100 gal. of water for 2-3 months.

Pre-Colonized with Beneficial Bacteria



Biological Ceramic Rings Benefits of Biological Ceramic Rings

- Porous structures give these rings many times more surface area than other media
- Optimum surface area supports large bacterial colonies
- Does not break down like other media

Benefits of Bacterial Pre-Colonization

- Reduces fouling
- Improves organic filtration efficiency
- Enhances nitrification

ITEM #	SIZE	DOSAGE RATES
CRINGAMD	12 oz. (340 g)	The quantity to use is limited only by the design and capacity of your filter.
CRINGALG	1 lb. 8 oz. (680 g)	

Pre-Colonized with Beneficial Bacteria



Ceramic Rings In pre-packed 2 lb. media bags

- Porous structures gives these rings many times more surface area than other media
- Optimum surface area supports large bacterial colonies
- Does not break down like other media

ITEM #	SIZE	DOSAGE RATES
CRINGA2	20 pc.- 2 lb. pre-packed nylon bags	The quantity to use is limited only by the design and capacity of your filter.

LIQUID FISH HEALTH CARE*

Products for Salt & Fresh Water



Protectant*

- Protects fish, amphibians & invertebrates
- Eases stress
- Adds a multi-part skin-slime replacer



Lice & Anchor Worm*

Not recommended for use with Crustaceans

For the treatment of conditions caused by:

- Fish lice (Argulus)
- Anchor worm (Lernaea)

ITEM #	SIZE	TREATS	DOSAGE RATES
PROA04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 fl. oz. per 60 gal. (227 L).
PROA08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
PROA16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
PROA64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
LAW04	4 fl. oz. (118 mL)	Treats up to 480 gal. (1,817 L)	Add 1 tsp. (5 mL) per 20 gal. (76 L), or 1 fl. oz. per 120 gal. (454 L).
LAW08	8 fl. oz. (236 mL)	Treats up to 960 gal. (3,633 L)	
LAW16	16 fl. oz. (473 mL)	Treats up to 1,920 gal. (7,268 L)	
LAW64	64 fl. oz. (1,893 L)	Treats up to 7,680 gal. (29,071 L)	



Restore*

- Reduces losses
- Protects fish
- May be used during transportation and handling
- Complements bath treatments
- Adds a multi-part skin-slime replacer
- Adds vitamin B12



Ich-Out*

- Treats Ich diseases in freshwater and saltwater
- Safe for use on most scaleless fish and tetras

ITEM #	SIZE	TREATS	DOSAGE RATES
RESTA04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	To condition water add 1 tsp. (5 mL) for each 10 gal. (38 L) of water.
RESTA08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
RESTA16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
RESTA64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	

ITEM #	SIZE	TREATS	DOSAGE RATES
ICHA04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 fl. oz. per 60 gal. (227 L).
ICHA08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
ICHA16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
ICHA64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	



Defend*

Treatment for disease of aquarium fish caused by fungi, protozoans, bacterial and more.

ITEM #	SIZE	TREATS	DOSAGE RATES
DEFA04	4 fl. oz. (118 mL)	Treats up to 240 gal. (908 L)	Add 1 tsp. (5 mL) per 10 gal. (38 L), or 1 fl. oz. per 60 gal. (227 L).
DEFA08	8 fl. oz. (236 mL)	Treats up to 480 gal. (1,817 L)	
DEFA16	16 fl. oz. (473 mL)	Treats up to 960 gal. (3,633 L)	
DEFA64	64 fl. oz. (1,893 L)	Treats up to 3,840 gal. (14,535 L)	

MICROBE-LIFT/Liquid Fish Health Care Products*

40 Piece Display -

Item #HAD40MED



CONTENTS
4 pc. - 16 oz. Restore
4 pc. - 16 oz. Ich-Out
4 pc. - 16 oz. Protectant
4 pc. - 16 oz. Defend
16 pc. - 16 oz. bottles
6 pc. - 4 oz. Restore
6 pc. - 4 oz. Ich-Out
6 pc. - 4 oz. Protectant
6 pc. - 4 oz. Defend
24 pc. - 4 oz. bottles



Liquid Fish Health Care Starter Kit*

4 Pack - Item #HA4PKMED

CONTENTS	
1 pc. - 4 oz. Restore	
1 pc. - 4 oz. Defend	
1 pc. - 4 oz. Ich-Out	
1 pc. - 4 oz. Protectant	
4 pc. - 4 oz. bottles	

DRY FISH HEALTH CARE

Products for Salt & Fresh Water



Praziquantel* (Powder)

use for

- Treatment of Praziquantel-susceptible diseases of aquarium fish
- Tapeworm • Flatworm • Flukes

ITEM #	SIZE	TREATS	DOSAGE RATES
PRAZI3.5	3.5 oz. (100 g)	Treats up to 360 gal. (1,363 L)	Add 1 tsp. (5 mL) per 20 gal. (70 L)



Metronidazole* (Powder)

use for

- Hole-in-the-Head disease
- Head-and-Lateral-Line disease
- Treatment of "Ich"

ITEM #	SIZE	TREATS	DOSAGE RATES
METRO3.5	3.5 oz. (100 g)	Treats up to 100 gal. (380 L)	Add 1 capful per 10 gal. (38 L)



MICROBE-LIFT/Powdered Fish Health Care Products*

18 Piece Display - Item #HAD18MED

CONTENTS	
6 pc. - 3.5 oz. Praziquantel	
6 pc. - 3.5 oz. Metronidazole	
6 pc. - 3.4 oz. Gram Negative/Gram Positive	
18 pc. - screw top jars	



Gram Negative/ Gram Positive* (Powder)

use for

- Mouth "Fungus"
- Fin & tail rot
- Furunculosis
- Bacterial Gill disease
- "Black Molly" disease

ITEM #	SIZE	TREATS	DOSAGE RATES
NEGPOS3.4	3.4 oz. (97 g)	Treats up to 100 gal. (380 L)	Add 1 capful per 10 gal. (38 L)



* All Health Care Products come in white bottles.

Pre-Packs & Endcaps

Our pre-packs provide you major discounts and saves you ordering time as well. Call for sell sheets which include item number, quantity, prices and discounts for each shelf pre-pack and endcap.



MICROBE-LIFT/ Master 12- 2' Shelf Display

Header card is *not* included*.
Item #HASDM2



MICROBE-LIFT/Reef & Marine- 3' Shelf Display

Header card is *not* included*.
Item #HASDR3



MICROBE-LIFT/Aquarium Specialty- 3' Shelf Display

Header card is *not* included*.
Item #HASDAS3



MICROBE-LIFT/ Master 12- 4' Shelf Display

Header card is *not* included*.
Item #HASDM4



MICROBE-LIFT/Fresh Water- 3' Endcap Display

Header card *is* included.
Item #HAENDFW3

* Header cards, in several different sizes,
are sold on page 46

Small Posters

Dimensions: 8" x 12"



MICROBE-LIFT Salt & Fresh Small Store Poster

Item #POPSGNHA08



MICROBE-LIFT Reef Aquarium Small Store Poster

Item #POPSGNHA06



MICROBE-LIFT Reef Liquid Food Small Store Poster

ITEM #POPSGNHA09



MICROBE-LIFT Natural Products Small Store Poster

Item #POPSGNHA10



MICROBE-LIFT Bacterial Additives Small Store Poster

Item #POPSGNHA03



MICROBE-LIFT Cycle Aquarium Small Store Poster

Item #POPSGNHA01



MICROBE-LIFT Fish Food Enhancers Small Store Poster

ITEM #POPSGNHA05



MICROBE-LIFT Salt Water Small Store Poster

Item #POPSGNHA07



MICROBE-LIFT Cichlid Small Store Poster

Item #POPSGNHA02



MICROBE-LIFT Fresh Water Small Store Poster

ITEM #POPSGNHA04

In-Store Signage

Ecological Laboratories Inc. has a whole new array of colorful, versatile and efficient MICROBE-LIFT aquarium product signage to help distinguish our brand and drive your in-store traffic to our nationally advertised products!



MICROBE-LIFT Home Aquarium Sign

Dimensions: 24" x 12" - Item #POPHEADHA24 (Coroplast Board)



MICROBE-LIFT Home Aquarium Sign

Dimensions: 39" x 12" - Item #POPHEADHA39 - Fits the large aquarium display rack or it may be used alone. (Coroplast Board)



MICROBE-LIFT Home Aquarium Sign

Dimensions: 48" x 12" - Item #POPHEADHA (shown above)
Dimensions: 48" x 24" - Item #POPHEADHA48 (not shown)
Perfect header for a 4' section on a gondola. (Photo Paper)



MICROBE-LIFT Home Aquarium Vinyl Outdoor Banner

Dimensions: 60" x 24" - Item #POPBANHA (Indoor/Outdoor)



MICROBE-LIFT Flexible Stand & Home Aquarium Vertical Banner

This convenient, light-weight, flexible stand is quick to set up, move, store, and/or take down! The 24" x 60" vertical, grommetted, plastic-coated vinyl banners easily attach. The banners can also be used for wall hanging!

Stand Only:

Item #POPSTANDFLEX

Banner Only:

Item #POPBANHASOLD



MICROBE-LIFT Natural Products Vertical Banner

Dimensions: 24" x 60"

Item #POPBANHAHERB



Reef Safe Lab Tests Brochure

ITEM #POPLITCATHER



MICROBE-LIFT Xiba River Vertical Banner

Dimensions: 24" x 60"

Available in English, Chinese, or Arabic.

English - Item #POPBANXIBAE

Chinese - Item #POPBANXIBAC

Arabic - Item #POPBANXIBAA



Digital Imagery DVD

As a service to our dealers, we offer a digital image library of the complete MICROBE-LIFT product line, conveniently available upon request. This DVD set is formatted for both MAC & PC. All images are in: hi & lo-resolutions; full-color & B/W; eps, tiff, bmp and jpg files for print or web use. All of our images can also be viewed on our website. Item #POPDVDART



front

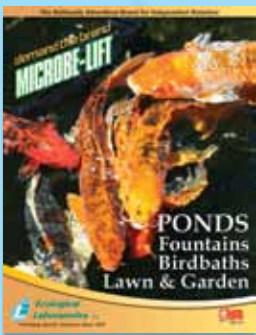


back

Lionfish T-Shirt

Available in:

- Small - Item #POPSHIRTASM
- Medium - Item #POPSHIRTAMD
- Large - Item #POPSHIRTALG
- XLarge - Item #POPSHIRTAXL
- XXLarge - Item #POPSHIRTAXXL



Ponds, Fountains, Birdbaths & Lawn & Garden Catalog

Our pond product line is featured in this full-color 60 page catalog, containing explicit product descriptions, dosage rates and other important information. Item #POPLITCATP



Microbe-Lift Flip Book

Available in English, Traditional Chinese, Chinese, Arabic, German, and Spanish.

- English - Item #POPFLIPENG
- Traditional Chinese - Item #POFFLIPTWHK
- Simple Chinese - Item #POPFLIPCHNA
- Arabic- Item #POPFLIPARAB
- German - Item #POPFLIPGERM
- Spanish - Item #POPFLIPSPAN



Large Display Rack

Item #POPRACKHA

Display

At your request - FREE DISPLAY with a qualifying order. Mix and match the items that best suit your location.

Header Card

Header Card must be specified on order.

Item #POPHEADHA39

Small Display Rack

Item #POPRACKSM4

Display

At your request - FREE DISPLAY with a qualifying order. Mix and match the items that best suit your location.

Header Card

Header Card must be specified on order. Use with above rack.

Item #POPHEADHASM



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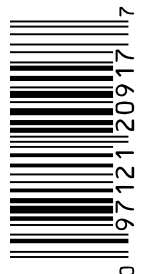
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