

The Nationally Advertised Brand for Independent Retailers

demand the brand
MICROBE-LIFT®

PONDS Fountains & Birdbaths

35th Year

www.MicrobeLift.com



***Ecological
Laboratories*** INC.

Providing Aquatic Solutions Since 1976





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Take advantage of our FREE online Dealer Directory.
Sign up at: www.MicrobeLift.com/register.

HOW TO CALCULATE GALLONS IN A POND:

Rectangular Pond - Length (in feet) x Width x Depth x 7.5

Circular Pond - $3.14 \times r^2 \times \text{Depth} \times 7.5$

(r^2 = radius squared or half the pond diameter x itself)

No Cool Koi Conversations
No Fancy Re-Worked Packaging

MICROBE-LIFT®.com



UNMATCHED TECHNOLOGY
UNMATCHED RELIABILITY
UNMATCHED PERFORMANCE

- One company advertises "Better, Faster, Stronger Bacteria".
- Another company advertises "More Species of Bacteria".
- Another company advertises "57 + 1 Strains of Bacteria".
- Another company has a drawing of Koi with clothes pins on their noses saying, "What stinks in here?"

Let's settle the comparisons. **NOW SEE FOR YOURSELF** what the "stink" is all about. It's about us, **Microbe-Lift/PL**, the #1 most requested beneficial bacteria by brand name, because of proven superior performance.

Now for the first time **SEE** microscopic video comparisons of Microbe-Lift/PL vs. other brands (we won't even call them competitors). Simply go to www.MicrobeLift.com hit the icon and see the Microbe-Lift difference!

It's not about the number of species, it's not about bacterial counts, **it's about technology and it's about time!**



**SEE THE
DIFFERENCE
FOR YOURSELF
ON VIDEO**



Other Brands, hardly ANY activity!

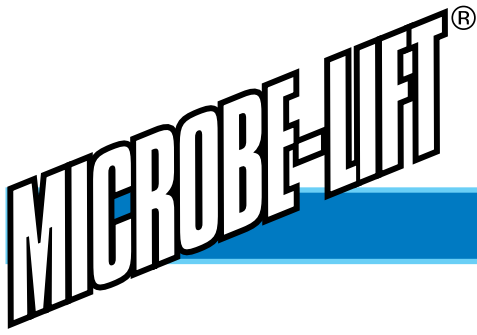


MICROBE-LIFT®

Cycles Fish Ponds Fast

Understanding the Nitrogen Cycle & Your Pond





Cycles Fish Ponds Fast

Understanding the Nitrogen Cycle & Your Pond



MICROBE-LIFT®/PL & MICROBE-LIFT®/Nite-Out II

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

Just follow these simple steps:

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

As the organic waste matter in your pond - i.e., dead plant life, excessive fish food and fish waste - is broken down by pond biology, the waste matter is converted to ammonia in a process called *Ammonification*. As the ammonia levels build in your pond, 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 45-60 minutes for waste degraders) and often require weeks to naturally develop the necessary population to convert all the ammonia produced in your pond.

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

In addition, you should know the term *Carbonate Alkalinity* because the biological nitrification process that removes toxic ammonia from your pond in order for it to cycle properly requires a source of inorganic carbon. It takes 7.1 pounds of carbonate alkalinity for every pound of ammonia removed from your pond water. If carbonate alkalinity is *not* available in pond water, it's just like your car running out of gas! The nitrification process will stop, or may not even get started. To ensure toxic ammonia is removed by the necessary nitrifying bacteria, you must test your pond water for adequate carbonate alkalinity until there is a minimum of 50 ppm. Then add **MICROBE-LIFT®/Nite-Out II** to ensure rapid and complete ammonia removal by the nitrifying microbes.

Step #3: Use **MICROBE-LIFT®/KH Test Kit** to test the levels in your pond.

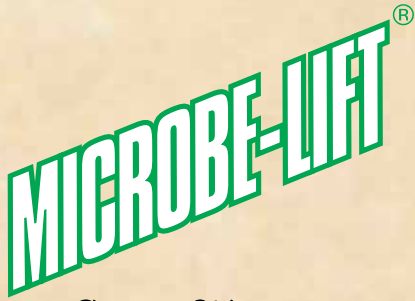
Step #4: Use **MICROBE-LIFT®/KH Booster** to supply the necessary carbonate alkalinity required by nitrifying microorganisms. If carbonate alkalinity is NOT present, the pond pH will be unstable and ammonia removal may cease.

MICROBE-LIFT®/PL and Denitrification

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

While some pond 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 pond filter bio-films. **MICROBE-LIFT®/PL** cultures are also *denitrifying microbes* that provide an important nitrate removal pathway assisting in the removal of nitrate via denitrification. **MICROBE-LIFT®/PL** includes high-rate denitrifiers that convert nitrate to nitrogen gas under an anaerobic condition that exists in filters and pond surface bio-films, reducing the nitrate level in your pond. It is noteworthy that algae can use nitrate as a nutrient.

MICROBE-LIFT®/PL & MICROBE-LIFT®/Nite-Out II are the answer to a Natural, Clean, Clear NON-TOXIC Pond 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 process.



Earth-Friendly Products for Ponds, Fountains & Birdbaths

All People Are Created Equal...
All Bacteria Are ^{NOT} Created Equal

How is MICROBE-LIFT® different from other biological products for ponds?

There are a number of important differences that make MICROBE-LIFT® far superior to other bacterial products. Here are just a few:

1. MICROBE-LIFT/PL® contains photosynthetic bacteria which can be *very* beneficial in balancing the ecology of a pond. These bacteria can use sunlight as a source of energy, taking some of the load off of the aerobic heterotrophs. This is why MICROBE-LIFT/PL® has its characteristic purple/red color. We DO NOT add food coloring or other types of pigments to our product! Like all photosynthetic organisms, photosynthetic bacteria need a pigmented material to absorb sunlight. *Chlorophyll* is responsible for the green hues in plants. *Carotenoids* give photosynthetic bacteria its purple/red hue. Initially, when we start to grow our product, the medium is clear. But after a few days of exposure to sunlight - as if by magic - the bacteria synthesize this natural pigment and it turns purple/red. Since photosynthetic bacteria are so beneficial to ponds, other products claim to contain these bacteria too. However, a product that is CLEAR CANNOT CONTAIN PHOTOSYNTHETIC BACTERIA because light passes through clear liquid...so it is simply impossible!
2. Ecological Laboratories, Inc. is the basic manufacturer of MICROBE-LIFT/PL®. Many other companies DO NOT produce their own bacteria. Their products are *stock products*: mass-produced by large culture manufacturers, sold for any number of applications and packaged under a variety of labels. Most of these products contain only aerobic heterotrophs and facultative anaerobes. While these may provide some benefit in a pond environment, they CANNOT balance the pond's ecosystem the way MICROBE-LIFT/PL®'s consortium of aerobic heterotrophs, facultative anaerobes plus photosynthetic, anaerobic and chemosynthetic organisms can.
3. MICROBE-LIFT/PL® is a virtual ECOSYSTEM IN A BOTTLE! It is *grown in the container in which it is sold* because the organisms grow synergistically - the way they have to work in your pond - together. Most products from mass producers of bacteria are grown as individual strains in large tanks, or, if they are a dry product, in tray fermentors. Then they are blended before packaging with very little knowledge of how they will interact in the pond environment or any environment for that matter.
4. A single box of MICROBE-LIFT/PL® is so versatile that you would have to purchase three or four of another company's individual products to achieve the same results! So while the price of MICROBE-LIFT/PL® may be a little higher than some of our competition, you can end up saving three to four times what you might have spent!
5. Upon being asked why he recommends MICROBE-LIFT/PL® and what it can do for a pond, the most successful salesman from one of our best dealers simply replied, "MICROBE-LIFT/PL® cuts your maintenance in half!" Simple, very effective and true!



Ecological Laboratories INC.

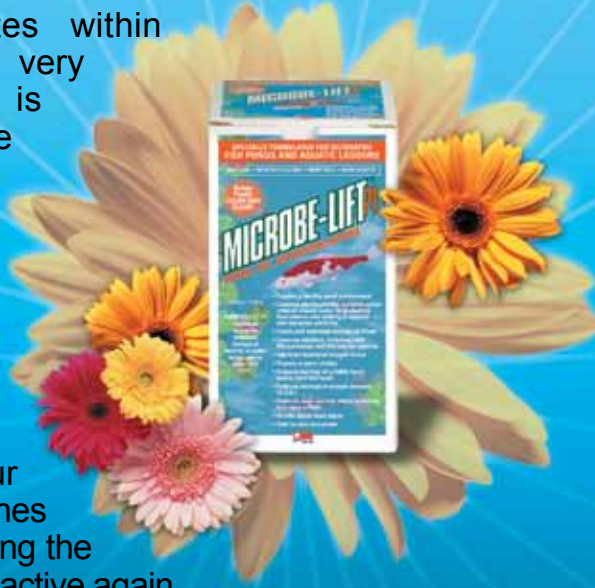
Providing Aquatic Solutions Since 1976

www.MicrobeLift.com



The Science and Success Behind the Smell

When you open a bottle of MICROBE-LIFT/PL there is a 'rotten egg' smell. The odor is totally harmless, it dissipates within seconds, and it is there for a very good reason. The product is designed to naturally produce hydrogen sulfide and to serve important functions. The hydrogen sulfide acts like an anesthesia to put the bacteria to sleep. That's why our live bacteria have the longest shelf life on the market. When you open the bottle and pour MICROBE-LIFT/PL into your pond, the hydrogen sulfide flashes off and dilutes in the water allowing the bacteria to wake up and become active again.



THE MICROBE-LIFT SATISFACTION GUARANTEE:

If MICROBE-LIFT does not meet the standards as stated in our directions, we will replace the product **ABSOLUTELY FREE**, to assure success.

ALL MICROBE-LIFT PRODUCTS ARE UNCONDITIONALLY GUARANTEED TO ASSURE YOUR CUSTOMER'S SATISFACTION.

**Convenient
Sizes**

So, why buy a product that smells like rotten eggs?

BECAUSE IT'S SIMPLY THE BEST PRODUCT ON THE MARKET!

MICROBE-LIFT IS THE PRODUCT LINE MOST OFTEN REQUESTED BY BRAND NAME TO ESTABLISH, RESTORE AND MAINTAIN THE NATURAL BIOLOGICAL AND CHEMICAL BALANCE OF YOUR POND IN ALL SEASONS.

Specially Formulated for Decorative Fish Ponds, Lagoons & Smaller Water Features

- Creates a cleaner environment for your pond, promoting faster fish growth
- Reduces ammonia nitrogen levels
- Dissolves away organic sludge
- Seeds and maintains biological filters
- Significantly reduces noxious odors caused by dead algae, fish fecal matter and urine
- Reduces hydrogen sulfide, which creates strong, offensive odors
- Reduces biological oxygen demand (B.O.D.)
- Reduces buildup of bird droppings, fish feed and dead leaves
- Breaks down dead algae
- Improves dissolved oxygen levels
- Contains photosynthetic bacteria which reduces cloudy water by promoting flocculation and settling of organic and inorganic particles
- Effective over a wide range of pH conditions
- Can be used at 45° F

MICROBE-LIFT® Water Clarifiers (Liquid)



PL PONDS & LAGOONS (VEGETATIVE CULTURES)

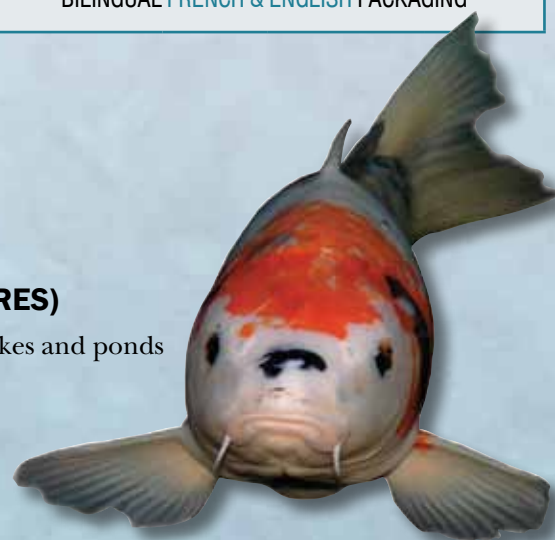


SIZE	ITEM #	TREATS	APPLICATION RATE			
16 OZ.	10PLP	80 GAL POND-11 MOS. 200 GAL POND - 8 MOS.	Pond Vol. (Gals.)	1st App. (Purge)	Next 4 Wks. (Once per Wk.)	Mainte- nance
			10-20	2 oz.	1 oz.	1 oz.
32 OZ.	10PLQ	500 GAL POND - 11 MOS. 1,000 GAL POND - 8 MOS.	21-50	4 oz.	1.5 oz.	1.5 oz.
			51-80	6 oz.	1.5 oz.	1.5 oz.
GAL	10PLG4	5,000 POND - 21 MOS.	81-250	8 oz.	2 oz.	2 oz.
			251-500	10 oz.	3 oz.	3 oz.
GAL	10PLG6	5,000 POND - 21 MOS.	501-1,000	14 oz.	5 oz.	5 oz.
			1,001-1,500	18 oz.	6 oz.	6 oz.
			1,501 - 2,500	24 oz.	8 oz.	8 oz.
			2,501 - 3,500	28 oz.	10 oz.	10 oz.
5 GAL	10PLX5G	SEE LABEL	3,501 - 5,000	32 oz.	12 oz.	12 oz.
			5,001 - 7,500	40 oz.	16 oz.	16 oz.
			7,501 - 10,000	48 oz.	20 oz.	20 oz.
32 OZ.	PL32F	500 GAL POND - 11 MOS. 1,000 GAL POND - 8 MOS.	BILINGUAL FRENCH & ENGLISH PACKAGING			

HC HIGH COUNT (VEGETATIVE CULTURES)

A Proprietary Formulation for larger rural lakes and ponds

- Reduces ammonia nitrogen levels
- Reduces odors
- Breaks down organic sludge
- Contains photosynthetic bacteria



SIZE	ITEM #	TREATS	APPLICATION RATE			
GALLON	10HCG4 10HCG6	10,000 GAL POND - 8 MOS.	Pond Volume (Gals.)	1st App. (Purge)	Next 4 Weeks (Once per Week)	Maintenance 1 x per month
			10,001-50,000	64 oz.	24 oz.	24 oz.
			50,001-100,000	1 gal.	32 oz.	32 oz.
			100,001-300,000	2 gals.	0.5 gal.	0.5 gal.
5 GALLON	10HCX5G	50,000 GAL. POND - 6 MOS.	300,001-500,000	4 gals.	1 gal.	1 gal.
			500,001-750,000	6 gals.	2 gals.	2 gals.
			750,001-1,000,000	8 gals.	3 gals.	2.5 gals.

MICROBE-LIFT® EPA Registered Algae Control



ALGAWAY 5.4

- Eliminates many types of algae in the pond
- For use with fish and live plants
- Liquid formulation
- EPA Registered

SIZE	ITEM #	TREATS	APPLICATION RATE	
8 OZ.	ALGA08	2,839 GALS.	Water Volume	Amount
16 OZ.	ALGA16	5,678 GALS.	50 gallons	30 drops
32 OZ.	ALGA32	11,356 GALS.	120 gallons	2 tsp. (2 capfuls)
GALLON	ALGAGAL	45,424 GALS.	360 gallons	2 Tbsp. (6 capfuls)



GREEN CLEAN

- Immediate filamentous or “string” algae control for fountains, ornamental ponds and water gardens
- Keeps water clean
- EPA Registered

SIZE	ITEM #	TREATS	APPLICATION RATE	
2.5 LBS.	GREEN02	4,000 GALS.	POND SIZE	CURATIVE RATE
8 LBS.	GREEN08	16,000 GALS.	50 gallons	1 Tbsp.
			100 gallons	1.5 Tbsp.
20 LBS.	GREEN20	40,000 GALS.	500 gallons	0.5 Cup
			1,000 gallons	1 Cup
50 LB.	GREEN50	100,000 GALS.	5,000 gallons	5 Cups
			10,000 gallons	10 Cups



MEAN GREEN ALGAE TEAM - ALGAECIDE AND MICROBE-LIFT/PL BACTERIAL WATER CLARIFIER

- Immediate filamentous or “string” algae control for fountains, ornamental ponds and water gardens
- Keeps water clean
- Breaks down dead algae
- Small contains: 1 ML/PL 32 oz. & 1 Green Clean 2.5 lbs.
- Large contains: 1 ML/PL gallon & 1 Green Clean 8 lbs.
- Green Clean is EPA Registered

SIZE	ITEM #	TREATS	APPLICATION RATE
SMALL	MGATSM	Small - Medium ponds & water features	See each product label
LARGE	MGATLG	Large - XLarge ponds & water features	



PONDLESS WATERFALL KIT

MICROBE-LIFT/ PL & MICROBE-LIFT/ OXY POND CLEANER

Will safely and effectively break down unsightly debris, prevent odor and deep clean rocks in your pondless waterfall!

Item #PWK



OPC OXY POND CLEANER

Uses the power of oxygen to safely yet immediately break down accumulated debris on rocks, streams and waterfalls.

Helps prevent odors. Cleans decks, planters and lawn furniture too.

SIZE	ITEM #	TREATS	APPLICATION RATE
2 LBS.	OPCSM	UP TO 10,000 GALS.	To treat areas with debris buildup, sprinkle over area needing treatment. Make direct contact but avoid live plants where possible.
8 LBS.	OPCMD	UP TO 40,000 GALS.	
18 LBS.	OPCLG	UP TO 90,000 GALS.	
45 LBS.	OPCXL	UP TO 225,000 GALS.	
2 LBS.	OPCSMF	UP TO 10,000 GALS.	BILINGUAL FRENCH & ENGLISH PACKAGING

SC SOY-BASED CLEANER

Loosens up and cleans away accumulated solids with the cleaning action of natural biodegradable soy extracts.

Great for liners, rocks, ornaments and pumps

Non-toxic to pumps, aquatic fish and plant life like most cleaners, detergents or surfactants



SIZE	ITEM #	APPLICATION RATE
32 OZ.	SC32	<ul style="list-style-type: none"> • Apply to surface • Use soft cloth and scrub in circular pattern • Allow to stand for 1 minute • Rinse with clean water • For stubborn stains, repeat as necessary

MICROBE-LIFT® Seasonal Products



SPRING/SUMMER CLEANER

- Helps jump start your pond in the spring
- Reduces buildup of dead leaves and cellulosic organic sediment

SIZE	ITEM #	TREATS	APPLICATION RATE				
8 PCS - 2 OZ. PACKETS	10XSSCX1	UP TO 5,000 GAL POND FOR 4 WEEKS	Pond Vol. (Gals.)	2 oz. Packets			
				Wk. 1	Wk. 2	Wk. 3	Wk. 4
			80-500	1	1	1	1
			501-1,000	2	1	2	1
			1,001-5,000	2	2	2	2
8 PCS - 2 OZ. PACKETS	SSCF	UP TO 5,000 GAL POND FOR 4 WEEKS	BILINGUAL FRENCH & ENGLISH PACKAGING				

AUTUMN/WINTER PREP

MICROBE-LIFT/AWP helps accelerate the decomposition of leaves, sediment and other organic matter during the fall and winter months. MICROBE-LIFT/AWP will also help jump start your pond to a healthier environment in the spring.

MICROBE-LIFT/AWP is a two-part system of LIQUID bacteria and DRY, water soluble packets containing a blend of cellulase enzymes, cellulase-producing bacteria and a cold weather bacteria. The *cellulase enzymes*, along with the *cellulase-producing bacteria*, are the key to accelerating the breakdown of leaves, organic sediment and sludge all winter long. The *cold weather bacteria* and *liquid bacteria* take care of the initial breakdown by-products.

- Continues to provide sustained biological activity even in water temperatures under 40° F (4° C)
- Contains psychrophilic strains (cold weather bacteria)
- If frozen, bacteria will remain effective after thawing out
- Effective in darker conditions (under ice and snow)
- Helps to maintain a healthy immune system for your fish during the winter months

SIZE	ITEM #	TREATS	APPLICATION RATE				
32 OZ. BACTERIA + 4 PCS - 2 OZ. PACKETS	AUTPREP	SEE LABEL	Pond Vol. (Gals.)	1st Application Dosage (oz.)	Next 3 Weeks Once per Week Dosage (oz.)	Maintenance Once per Mo. Dosage (oz.)	Packets per Month
			80-200	4 oz.	2 oz.	2 oz.	1
			201-500	6 oz.	3 oz.	3 oz.	1
			501-1,000	8 oz.	4 oz.	4 oz.	1
			1,001-2,500	12 oz.	6 oz.	6 oz.	1
			Note: Simply toss 1 water soluble cellulase enzyme packet into your pond every month				
GALLON BACTERIA + 8 PCS - 2 OZ. PACKETS	AUTPREPGK	SEE LABEL	2,501-5,000	16 oz.	8 oz.	8 oz.	2
			5,001-7,500	20 oz.	10 oz.	10 oz.	2
			7,501-10,000	24 oz.	12 oz.	12 oz.	2
			10,001-25,000	48 oz.	20 oz.	20 oz.	3
			25,001-50,000	96 oz.	40 oz.	40 oz.	3
			50,001-100,000	1 gal.	60 oz.	60 oz.	3
			100,001-300,000	2 gal.	96 oz.	96 oz.	4
Note: Simply toss the designated number of water soluble cellulase enzyme packets into your pond every month							
32 OZ. BACTERIA + 4 PCS - 2 OZ. PACKETS	AWP32F	SEE LABEL	BILINGUAL FRENCH & ENGLISH PACKAGING				



EZ STARTER KIT

This kit contains a full season's bacteria at a discounted price. The handy carrying case is made from heavy corrugated board.

Contains:

- 1 32 oz. PL
- 1 Spring/Summer Cleaner
- 1 32 oz. TheraP
- 1 32 oz. Autumn/Winter Prep

SIZE	ITEM #	TREATS	APPLICATION RATE
1 KIT HAS 4 PCS.	MLEZSPK	SEE LABEL	SEE EACH PRODUCT LABEL

MICROBE-LIFT® Sludge Remover and Nitrifiers

SA SLUDGE-AWAY

Sludge Away is formulated specifically for the removal of organic bottom solids that are slow to degrade. Works faster at warm water temperatures, however may be used effectively at any temperature year - round.

Recommended for use with all MICROBE-LIFT bacteria and enzyme products. Provides "rapid & natural sludge and muck removal". 80% faster than competitive products. Binds phosphate. Helps improve pond clarity. 100% natural active ingredients. Disperses quickly. Organic and microbial based.



SIZE	ITEM #	TREATS	APPLICATION RATE
32 OZ.	MLXSAQ	500 GAL POND - 6.5 WKS.	1 oz. per 100 gals. of pond water every week until sludge is eliminated
GALLON	MLXSAG4	2,500 GAL POND - 5 WKS.	
GALLON	MLXSAG6	2,500 GAL POND - 5 WKS.	
5 GALLONS	MLXSA5G	5,000 GAL POND - 12 WKS.	Maintenance: Treat with MICROBE-LIFT/SA monthly or as necessary thereafter
32 OZ.	SA32F	500 GAL POND - 6.5 WKS.	BILINGUAL FRENCH & ENGLISH PACKAGING

NITE-OUT II

Specialty Formulated for Rapid Ammonia & Nitrite Reduction

MICROBE-LIFT Nite-Out II is designed specifically for ponds that contain aquatic life. Its highly specialized microbial consortium of nitrifying cultures are specially formulated to eliminate ammonia via a natural biological process termed nitrification. The cultures contained in MICROBE-LIFT Nite-Out II will establish, promote or stabilize and maintain nitrification in pond waters, eliminating the toxic effect of ammonia.

MICROBE-LIFT Nite-Out II liquid nitrifying bacteria contains select strains of Nitrosomonas, Nitrospira and Nitrobacter. Nitrosomonas convert ammonia to nitrite and Nitrobacter and Nitrospira convert nitrite to nitrate.

NITRIFICATION

Nitrosomonas sp. Nitrobacter sp.

$\text{NH}_3 \rightarrow \text{NO}_2 \rightarrow \text{NO}_3$

Ammonia Nitrite Nitrate

- Initiates nitrification
- Promotes stable nitrification
- Provides stable cold weather nitrification
- Safe for use around plants and animals

ML/NITE-OUT II comprises select microorganisms that are autotrophic - able to use carbon dioxide as the sole source of carbon - and are relatively slow-growing, requiring specific conditions for optimum growth with typical cell division rates from 8-16 hours. Their performance and rate of growth are impacted by the environmental parameters required for nitrification. They are also highly oxygen-sensitive, requiring high dissolved oxygen levels (greater than 2 mg/L) to achieve maximum growth rates. Nitrite is produced by beneficial bacteria in the pond and the oxidation of harmful waste ammonia excreted by fish. Even though nitrite is not as toxic as ammonia, it is still very damaging to the health of fish.



Use with MICROBE-LIFT/PL for quick cycling of ponds!

Shelf life 12-18 months

SIZE	ITEM #	TREATS	APPLICATION RATE			
16 OZ.	NITE16	500 GAL POND - 14 MOS.	Pond Vol (Gals.)	1st App (Purge)	Next 4 Wks (1 x wkly)	Maintenance (1 x monthly)
			80-500	1 oz.	0.5 oz.	1 oz.
32 OZ.	NITE32	2,500 GAL POND - 5 MOS.	501-2,500	5 oz.	2.5 oz.	5 oz.
GALLON	NITEGAL	5,000 GAL POND - 11 MOS.	2,501-5,000	10 oz.	5 oz.	10 oz.
16 OZ.	NITE16F	500 GAL POND - 14 MOS.	BILINGUAL FRENCH & ENGLISH PACKAGING			
32 OZ.	NITE32F	2,500 GAL POND - 5 MOS.				
GALLON	NITEG1F	5,000 GAL POND - 11 MOS.				

MICROBE-LIFT®

Barley Straw Concentrated Extract

*A LIQUID Extract Especially Helpful Where
Bottom Drains are Present!*

- Goes to work on contact
- Releases decomposition by-products immediately
- Not harmful to aquatic life, plants humans or pets
- One bottle is equal to multiple barley straw bales
- Can be used all year round
- No messy residual



When a pond's ecosystem is mature and balanced, the water is usually clear and healthy for aquatic life. This maturation process is a function of the microbiological and chemical properties of the water.

NATURAL CHEMICAL MATURATION

MICROBE-LIFT/BARLEY STRAW LIQUID & DRY formulations help to mature the pond with natural chemicals just as a pure mountain stream matures through the years by the introduction of natural breakdown products from trees, plants, etc. These natural breakdown products often include humic and fulvic acid and organic acids that have a natural ability to sequester, or tie up, inorganic compounds so their concentrations in the pond don't get to levels that would unbalance the pond's ecosystem. These substances can also lead to natural purification of the pond through a slow release of hydrogen peroxide as they react with sunlight. The hydrogen peroxide is produced at levels that help purify the water while not having any adverse effects on desirable aquatic life. The sequestering, in conjunction with microbiological cycling, provides a stable natural ecosystem in your pond.

BIOLOGICAL MATURATION

The microbiological maturation process involves development of symbiotic populations of bacteria which stabilize the critical organic and inorganic components of the pond. The microorganisms do this through their ability to promote "biogeochemical cycles" - including carbon, nitrogen and phosphorus cycles - elements critical to all forms of aquatic life. By stabilizing these components, the bacteria prevent pollution of the pond. It can take some time to accomplish this "biological maturation" in a man-made pond and may never occur as the maturation process is constantly interrupted by certain pond practices like cleaning out the pond. The process can be accelerated significantly through the use of MICROBE-LIFT/PL - a virtual "ecosystem in a bottle" - and mimics the complex interdependent populations in a mature pond.

**An environmentally
responsible, cost-
efficient pond
conditioner that
is a clean and
easy, natural and
organic approach
to a healthy pond
environment**

MICROBE-LIFT® Barley Straw Products



BARLEY STRAW PELLETS+

- Less mess and cost than bales of barley
- Clarifies ponds organically - no harmful chemicals
- Barley Straw Pellets are easier to apply to your pond than bales, pillows or pads
- Easier to tailor dosage
- Decomposes quickly and works year-round to soften pond water and reduce negative effects of phosphate.



CONCENTRATED BARLEY STRAW EXTRACT

- Easy to use Concentrated Barley Straw Extract goes to work immediately and can be used all year long.
- Specially formulated to naturally balance pond water and improve clarity
- Easy to use Tip and Pour container allows for convenient measuring for precise usage. No messy residue.



CONCENTRATED BARLEY STRAW EXTRACT + PEAT

- Easy to use Concentrated Barley Straw Extract goes to work immediately and can be used all year long.
- Specially formulated to naturally balance pond water and improve clarity
- Includes liquid peat to help maintain an ideal pH
- Easy to use Tip and Pour container allows for convenient measuring for precise usage. No messy residue. Safe for aquatic life, plants, humans or pets.

SIZE	ITEM #	TREATS	APPLICATION RATE				
			Pond Vol.	CLEAR WATER		TURBID WATER	
2.2 LBS.	10BSPP2.2	150 GALS. - 19 MOS. 400 GALS. - 8 MOS.	Gals.	oz	mL	oz	mL
			80	2	70	4	140
			100	3	90	6	180
4.4 LBS.	10BSPP4.4	500 GALS. - 12 MOS. 800 GALS. - 8 MOS.	150	4	130	8	260
			200	6	175	12	350
			300	9	260	18	520
			400	12	350	24	700
10.5 LBS.	10BSPP10.5	1,000 GALS. - 14 MOS. 2,500 GALS. - 6 MOS.	500	15	425	30	850
			600	18	525	35	1,000
			700	21	600	40	1,200
			800	24	700	48	1,400
25 LBS.	BPPX25	SEE LABEL	1,000	30	870	60	1,750
			1,500	45	1,300	90	2,600
			2,000	60	1,700	120	3,400
			2,500	70	2,000	140	4,000
40 LBS.	BPPX40	SEE LABEL	4,000	95	2,750	210	5,500
			5,000	130	3,750	280	7,500
			Apply every six weeks				

SIZE	ITEM #	APPLICATION RATE			
		Pond Vol.	Week 1	Week 2, 3 & 4	Maintenance 1x per month
8 OZ.	MLCBSE250	Gals.	oz	oz	oz
		up to 500	2	0.50	0.75
		501-1,000	3	0.75	1.25
16 OZ.	MLCBSE500	1,001-1,500	4	1.00	1.50
		1,501-2,000	6	1.25	1.75
		2,001-3,000	8	1.50	2.25
32 OZ.	MLCBSE1L	3,001-4,000	10	2.00	3.00
		4,001-5,000	12	2.50	3.50
		5,001-6,000	16	3.00	4.00
64 OZ.	MLCBSE2L	6,001-7,000	20	3.50	4.50
		7,001-8,000	24	5.00	6.00
GALLON	MLCBSEG4	8,001-10,000	32	6.00	8.00
16 OZ.	BSE16F	BILINGUAL FRENCH & ENGLISH PACKAGING			

SIZE	ITEM #	APPLICATION RATE			
		Pond Vol.	Week 1	Week 2, 3 & 4	Maintenance 1x per month
8 OZ.	BSEP08	Gals.	oz	oz	oz
		up to 500	2	0.50	0.75
		501-1,000	3	0.75	1.25
16 OZ.	BSEP16	1,001-1,500	4	1.00	1.50
		1,501-2,000	6	1.25	1.75
		2,001-3,000	8	1.50	2.25
32 OZ.	BSEP32	3,001-4,000	10	2.00	3.00
		4,001-5,000	12	2.50	3.50
		5,001-6,000	16	3.00	4.00
64 OZ.	BSEP64	6,001-7,000	20	3.50	4.50
		7,001-8,000	24	5.00	6.00
GALLON	BSEPG4	8,001-10,000	32	6.00	8.00

MICROBE-LIFT® Water Clarifiers (Dry)

NO FILLERS!

100% ACTIVE INGREDIENTS!

100% EFFECTIVE!

100% WATER SOLUBLE!



TAC TOTALLY ACTIVE CLARIFIER DRY BACTERIAL CULTURES

The Differences Between ML/PL and ML/TAC

While MICROBE-LIFT/PL has become the #1 pond clarifier asked for by brand name, there have been, and always will be, people who prefer products in a dry powder form. Because there are opportunities to formulate certain dry components into a dry product that would not be practical to mix into a liquid, Ecological Laboratories has developed MICROBE-LIFT/TAC.

Since Ecological Laboratories is the producer of the most popular biological pond clarifier on the market, there will inevitably be questions about the differences between the two products and why one would be selected over the other. Here is a list of the basic differences with the features and benefits of each:

1. MICROBE-LIFT/TAC does not have photosynthetic bacteria, which is one of the keys to the performance of MICROBE-LIFT/PL and what sets it above all other biological products for ponds. Unfortunately, no one has been successful to this point at preserving photosynthetic cultures in dry form. These photosynthetic bacteria are a valuable source of ML/PL's ability to clarify water and are capable of tapping into a potent source of energy to do this - the sun. Many of these photosynthetic bacteria are also potent detoxifiers of water.
2. The organisms in ML/TAC are not grown together in the same container, as ML/PL is. As a result, you don't get the same "ecosystem in a bottle" that you get with ML/PL, and as a result, not quite the same ability to ecologically balance your pond.
3. The ML/TAC has powdered activated carbon which is well-known for its abilities to clarify water by providing a point surface for bacteria to grow on. It then acts as a weighting agent to help these bacteria settle to the bottom, thus removing turbidity associated with dispersed bacteria. The carbon also acts as a detoxifier by absorbing micro amounts of toxic materials: i.e. pesticides that can make their way into a pond.
4. ML/TAC also has sodium bicarbonate - a buffer that can help stabilize the pH.
5. ML/TAC has sea salt that helps to induce a protective slime layer on fish.
6. ML/TAC dry formulation has no odor.

SIZE	ITEM #	TREATS	APPLICATION RATE	
8 OZ.	MLXTAC8	80-250 GAL POND - 28 WKS.	First 4 Weeks (Weekly)	Maintenance (Twice Monthly)
1 LB.	MLXTAC16	500 GAL POND - 16 WKS.	1 oz. (2 Tbs.) for every 250 gallons of pond water	1 oz. (2 Tbs.) for every 250 gallons of pond water
3 LBS.	MLXTAC3	750 GAL POND - 32 WKS.		
5 LBS.	MLXTAC5	2,000 GAL POND - 20 WKS.	Dilute dosage in a 1/2 gal. of lukewarm water. Apply directly over surface area of pond or spread around perimeter.	
25 LBS.	MLXTAC25	EXTRA LARGE PONDS AND WATER FEATURES		

MC MAXIMUM CLARITY +

100% natural blend of bacteria, enzymes, and buffering agents.

Includes four additional natural ingredients that tie-up excess inorganic compounds, buffer the pH, and help balance the pond ecosystem.



SIZE	ITEM #	TREATS	APPLICATION RATE	
6 OZ.	MLMCX6	SMALL PONDS: 80-250 GALS. - 21 WKS.	First 4 Weeks (Weekly)	Maintenance (Twice Monthly)
12 OZ.	MLMCX12	MED PONDS: 250-750 GALS. - 12 WKS.	1 oz. (2 Tbs.) for every 250 gallons of pond water	1 oz. (2 Tbs.) for every 250 gallons of pond water
3 LBS.	MLMCX3	LG PONDS: 750-2,000 GALS. - 32 WKS.		
5 LBS.	MLMCX5	X-LG PONDS: 2,000-5,000 GALS. - 20 WKS.	Application may be determined by pond water clarity	

MICROBE-LIFT® Water Clarifiers (Dry)

SB SLUDGE-AWAY BOOSTER

Specially Formulated to Remove Excess Nutrients From Ponds, Waterfalls and Streams

MICROBE-LIFT/SB adjusts the micronutrients in the pond water resulting in conditions that are beneficial for water quality and clarity, and help to eliminate debris.

Directions

Fill a bucket with warm water. Using the application rates below, stir until the ML/SB is dissolved. Spread around the perimeter of the pond. The pond water may become cloudy immediately after adding the liquid slurry. This is normal and should clear up within 24-48 hours. Ponds should be treated 2 to 3 times during the first month or once every 10-14 days. For treatment, ML/SB should be added to the pond once every month thereafter. **NOTE:** Do NOT pour directly into the pond!



SIZE	ITEM #	TREATS	APPLICATION RATE	
5 OZ.	MLSB5	SMALL PONDS: 80-250 GALS. - 18 WKS.	First 4 Weeks (Weekly)	Maintenance (Twice Monthly)
11 OZ.	MLSB11	MED PONDS: 250-750 GALS. - 11 WKS.	1 oz. (2 Tbs.) for every 250 gallons of pond water	1 oz. (2 Tbs.) for every 250 gallons of pond water
2.75 LBS.	MLSB2.75	LG PONDS: 750-2,000 GALS. - 29 WKS.		
3.5 LBS.	MLSB3.50	X-LG PONDS: 2,000-5,000 GALS. - 36 WKS.	Application may be determined by pond water clarity	

CMC CALCIUM MONTMORILLONITE CLAY

It is said the secret to healthy, colorful Japanese koi is the clay mud in which they are raised. MICROBE-LIFT/CMC comes from one of the highest calcium clay deposits in the world. Calcium-based clay may help your pond water to produce some of the healthiest and deeply colored koi you've ever raised (or seen!) The koi's markings will become brighter and more dominant.

Plastic pre-formed ponds, as well as vinyl, cement and rubber ponds, do not have any nutrients on their bottom. In the wild, carp use mud to get many of their micro-nutrients and minerals. MICROBE-LIFT/CMC has a negative electric charge which will bind the clay particles to positively charged toxins in the water. MICROBE-LIFT/CMC is not only a nutrient source for koi, it will also "polish" your pond water. The clay acts as a natural flocculent and the particles that are bound up are filtered out of the pond. The clay can help make pond water sparkling clean (polishing).

SIZE	ITEM #	TREATS	APPLICATION RATE	
			Pond Volume	Maintenance
2 LBS.	MLKKB2	200 GAL POND - 2 YRS.	100-249 gals.	1 level tsp. twice weekly
4 LBS.	MLKKB4	500 GAL POND - 16 MOS.	250-500 gals.	1 level Tbs. twice weekly
6 LBS.	MLKKB6	1,000 GAL POND - 1 YR.	501-1,000 gals.	2 level Tbs. twice weekly
25 LBS.	MLKKB25	EXTRA LARGE PONDS OR PONDS WITH MANY FISH	You may use more clay to meet your goals. Cannot be overdosed.	

CLAY IS USED IN PONDS TO ACHIEVE MANY GOALS:

- Provides fish nutrition through mineral ingestion
- Improves fish color
- Detoxifies and clarifies pond water (polishing)

100% Natural Formulation for Pond Clarity, Koi Health, Growth & Color



MICROBE-LIFT® Fish Health



THERAP

- Biologically supports the fish's immune system
- Improves fish health, growth and longevity
- Reduces environmental stress
- For use with all ornamental, cold water, temperate, cyprinids, native and wild species
- Safe for all animals in and around the pond

SIZE	ITEM #	TREATS	APPLICATION RATE			
			Pond Vol. (Gals.)	Week 1	Weeks 2, 3, 4	Maintenance 1 x per month
32 OZ.	THERAPQ	500 GAL POND - 11 MOS.	80-250	8 oz.	2 oz.	2 oz.
			251-500	10 oz.	3 oz.	3 oz.
			501-1,000	14 oz.	5 oz.	5 oz.
GALLON	THERAPG4	5,000 POND - 21 MOS.	1,001-1,500	18 oz.	6 oz.	6 oz.
			1,501 - 2,500	24 oz.	8 oz.	8 oz.
			2,501 - 3,500	28 oz.	10 oz.	10 oz.
			3,501 - 5,000	32 oz.	12 oz.	12 oz.
			5,001 - 7,500	40 oz.	16 oz.	16 oz.
			7,501 - 10,000	48 oz.	20 oz.	20 oz.



ROMET TC

Romet® TC will help you provide the benefits of a medicated food by rolling your favorite fish food in this anti-bacterial top coating.

Romet® TC is a combination of sulfadimethoxine and ormetoprin and may be top coated on any feed.

SIZE	ITEM #	TREATS	APPLICATION RATE
2 OZ.	ROMETSM	UP TO 10 LBS. OF FISH FOOD	In order to coat 2.5 lbs. (40 oz.) of food, add 1/2 - 1 oz. (2 Tbsp.) of Romet® TC to a container with 2 oz. (1/4 cup) of water to create a slurry for coating the food of your choice. Romet® TC should be fed at a rate equivalent to 50 milligrams of active ingredients per kilogram (23 mg/lb.) of live body weight of fish per day. As an example, for actively feeding fish, feed at the lower concentration (1/2 oz. per 2.5 lbs: approximately 1 Tbsp. per 2.5 lbs.) for five (5) days. For less active fish, feed at the higher concentration (1 oz. per 2.5 lbs: exactly 2 Tbsp.) for five (5) days.
4 OZ.	ROMETLG	UP TO 20 LBS. OF FISH FOOD	

STRESS RELIEF

- Removes chlorine and chloramines
- Adds a multi-part skin slime-coat replacer
- Detoxifies heavy metals
- Adds essential electrolytes

Contains
**ALOE
VERA**



SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	SRP16	960 GALS.	To condition water for (1) new ponds, (2) before, after or during water additions, or (3) before adding new fish, amphibians, invertebrates or plants, add 1 teaspoonful (5 mL.) of MICROBE-LIFT/Stress Relief per 10 gallons (38 L) of water. Add to transport bags at the same dosage. For larger applications use the following measurements: 1 fl. oz. (30 mL.)/60 gal. (227 L). Shake well before using. Non-toxic to humans, pets and aquatic life.
32 OZ.	SRP32	1,920 GALS.	
GALLON	SRPG1	7,680- GALS.	

MICROBE-LIFT/LICE & ANCHOR WORM

TREATMENT FOR LICE & ANCHOR WORMS IN POND FISH

MICROBE-LIFT/Lice & Anchor Worm is the most effective treatment for diseases of fish caused by lice and anchor worms. When used as directed, MICROBE-LIFT/Lice & Anchor Worm will not harm biological filtration and may be used on scaleless fish.

MICROBE-LIFT/Lice & Anchor Worm may be used in any water temperatures above 40° F (4° C).

SIZE	ITEM #	TREATS:
16 OZ. (473 mL)	LAWP16	4,800 GAL. (18,170 L.)
32 OZ. (946 mL)	LAWP32	9,600 GAL. (36,340 L.)
1 GAL. (3.785 L)	LAWPG1	38,400 GAL. (145,360 L.)



PRAZIQUANTEL

The most effective treatment for flukes and tapeworms.

Recommended as an annual spring treatment for ornamental ponds.

SIZE	ITEM #	TREATS	APPLICATION RATE*
10 GR.	PRAZI10	UP TO 1,000 GALS.	<p>As a bath: Start the bath treatment with as large a partial water change as possible in the pond to be treated, or start with new water that has been conditioned with MICROBE-LIFT/XTreme. Do not stop filtration but remove activated carbon and stop foam-fractionation ("protein skimming"). Add enough MICROBE-LIFT/Praziquantel to produce a dosage of 2.5 mg/L (9.4625 mg/gal; 946.25 mg/100 gals.); vigorously shake the dosage with at least 1 quart of water for 3-5 minutes to produce a slurry. Pour the slurry into a 5 gallon bucket of water and mix well. Then distribute the mixture around the edge of the pond or pour into the pond filter or skimmer to achieve maximum distribution in the water. A single treatment of 7 days is usually sufficient. Do not use with any other drugs or treatments.</p> <p>In feed: To each 100 grams (3.5 oz) of dry feed (flake, granular or pellet) thoroughly mix in 400 mg of MICROBE-LIFT/Praziquantel. Moisten the dry mixture with 25 to 50 mL of grain alcohol (190 proof ethanol) for each 100 grams of dry feed; gently blend the moistened mixture to incorporate the Praziquantel into the feed. CAUTION: grain alcohol is flammable! Allow the mixture to air dry (do not heat), break up any clumps, package and store in a cool, dry place. Feed the medicated feed daily for 5 to 7 days.</p> <p>For accuracy and reproducibility, carefully weight dosages. However, one tablespoon is approximately 2.9 grams (=2,907.6 mg) and will treat 300 gallons (=1,135 L).</p> <p>Cautions: Keep out of reach of children. For ornamental pond fish use only; not for human or veterinary medical use.</p> <p>* For every gram of Praziquantel, first add 5 mL. of water. Mix thoroughly. Then add 10 mL. of grain alcohol to completely dissolve before adding to pond.</p>
50 GR.	PRAZI50	UP TO 5,000 GALS.	

MICROBE-LIFT® Fish Health



DEFEND

Provides Rapid Relief for Whitish Cottony Patches on Skin or Fins & Grayish Slime Surface on Body

- Combines 2 major anti-fungal ingredients plus a slime coat stimulator
- Contains a healant to assist a natural slime-coat to mend and protect damaged tissues
- Intended for use with all ornamental pond fish and not for use with invertebrates

Formerly labeled as Anti-Fungal Treatment

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	DEFP16	UP TO 960 GALS.	Dose at the rate of one fluid ounce per 60 gallons (227 L.). Prior to the initial use of MICROBE-LIFT/DEFEND a partial water change of 25% or more should be made. Carbon filtration must be removed during treatment. (CAUTION: Do not stop other filtration.) Dosage may be repeated, following the recommended water change, at least every 24 hours. MICROBE-LIFT/ Defend is best used in a separate quarantine/ treatment (Q/T) tank. If after 3 treatments, signs of the disease being treated persist, perform a large water change (up to 50%), replace the carbon filtration and consider using an alternative treatment.
32 OZ.	DEFP32	UP TO 1,920 GALS.	
GALLON	DEFPG1	UP TO 7,680 GALS.	



PROTECTANT

A mild treatment to help protect against parasites, harmful bacteria, and environmental stresses

- Reduces the possibility of infection and/or re-infection
- Contains double slime-coat protection

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	PROP16	UP TO 960 GALS.	To aid fish, amphibians and aquatic invertebrates contend with adverse environmental conditions and to aid in the protection from external injuries in ponds, add 1 fl. oz. per 60 gal. (227 L.). MICROBE-LIFT/ Protectant should be used, following appropriate water changes, at the successful conclusion of treatments for external diseases. Dosage may be increased up to 10 times without adverse effects. MICROBE-LIFT/ Protectant does not interfere with fish's gills or breathing, or with the use of water quality test kits.
32 OZ.	PROP32	UP TO 1,920 GALS.	
GALLON	PROPG1	UP TO 7,680 GALS.	



ICH-OUT

Provides Rapid Relief of Ich & Parasitic Diseases for All Pond Fish

- Combines 3 of the most preferred anti-parasitic ingredients as well as a topical treatment for an effective treatment for Ich (white spots), Trichodina, (flicking, flashing excess mucus production) and Chilodonella
- Safely helps to reduce the chances of secondary infections and will not burn
- Intended for use with all ornamental pond fish and not for use with invertebrates

Formerly labeled as Parasite Treatment

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	ICHP16	1,920 GALS.	Dose at the rate of one teaspoon (5 mL.) for each 20 gallons (76 L.) of water, or one fluid ounce per 120 gallons (454 L.). Prior to the initial use of MICROBE-LIFT/Ich-Out a partial water change of 20% or more should be made; this water change should be coordinated with the period when the diseased fish are showing the least number of cysts (spots). Carbon filtration must be removed during treatment. (CAUTION: Do not stop other filtration.) Treatments may be repeated, following the recommended water change, at least every 24 hours. As with the initial dosage of MICROBE-LIFT/Ich-Out the best results can be expected if the water change and dosage are performed when the diseased fish are showing the fewest cysts (spots). Treatment in a separate quarantine (Q/T) tank is strongly recommended.
32 OZ.	ICHP32	3,840 GALS.	
GALLON	ICHPG1	15,360 GALS.	

MICROBE-LIFT® Fish Health



BSDT BROAD SPECTRUM DISEASE TREATMENT

This is the preeminent product in this field because it is formulated with Malachite Green Chloride instead of the more toxic oxalate salt. It is the most effective treatment for the control of diseases caused by Ichthyophthirius (Ich), Costia, Trichodina, Chilodonella, Oodinium, and fungal infections.

Do not freeze.

Do not use with salt.

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	BSDT16	UP TO 4,800 GALS.	Add 3.5 fl. oz. (100 mL) of MICROBE-LIFT/BSDT for every 1,000 gallons of water to be treated. As with all disease treatments an initial partial water change of at least 20% must be made; a nearly total water change (>90%) will greatly improve the effectiveness. Remove all carbon filtration just before adding MICROBE-LIFT/BSDT, and replace the carbon at the conclusion of the treatment. Treatment may be repeated daily following at least a 20% water change. The treatment may be repeated every 8 to 12 hours depending upon the response of the fish to the treatment. Do NOT bypass your bio-filters, allowing a more comprehensive treatment of the entire pond system.
32 OZ.	BSDT32	UP TO 9,600 GALS.	
GALLON	BSDTG1	UP TO 38,400 GALS.	

RESTORE

Promotes Regeneration from Damages to Skin, Fins and Scales

- Combines healing and protective coating action with fast results, especially when treating shredded fins, cuts, scratches and/or abrasions from rock and gravel
- Provides protection against secondary bacterial infection
- Contains double slime-coat protection promoting natural defense against infection plus added electrolytes and Vitamin B-12 to help heal and regenerate fins
- Can be combined with MICROBE-LIFT treatments for parasites or fungus to help repair damaged tissues

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	RESTP16	UP TO 960 GALS.	To condition water, add 1 fl. oz. (30 mL.) per 60 gallons (227 L.). Dosage may be increased without adverse effects.
32 OZ.	RESTP32	UP TO 1,920 GALS.	
GALLON	RESTPG1	UP TO 7,680 GALS.	MICROBE-LIFT/Restore does not interfere with fish's gills or breathing, or with the use of water quality test kits.



**ESPECIALLY HELPFUL
FOR BUTTERFLY KOI AND
FANCY-TAILED GOLDFISH!**

MICROBE-LIFT® Pond Salt



POND SALT CRYSTALS

Will help maintain a healthy pond environment and reduce the threat of parasitic disease in pond water.

For Stress Reduction:

Use for quarantine tanks containing added electrolytes and Allantoin, which accelerates wound and fin healing.

Reduces the effects of nitrite toxicity

Adds electrolytes

SIZE	ITEM #	TREATS	APPLICATION RATE
2.5 LBS.	PSALTSMD	100 GALS.	Small Ponds: 1/2 cup (120 g) per 10 gals. (38 L) of pond water
5 LBS.	PSALTMMD	200 GALS.	
9 LBS.	PSALTGLG	360 GALS.	Large Ponds: 5 cups (1.13 kg) per 100 gals. (378 L) of pond water
35 LBS.	PSALTXLG	1,400 GALS.	
50 LBS.	PSALTXXLG	2,000 GALS.	



NEW!

from the makers of MICROBE-LIFT®

Lawn and Garden Products

including

- Microbes & Humates for Hydroponic Systems
- Consumer Sprayers for Plants, Shrubs & Lawns
- Professional Products for Landscapers & Nurseries

Visit www.MicrobeLife.com



NEW Formula

Herbal Water Conditioners All-Natural Expellants for a Natural Aquatic 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.

Question:

If MICROBE-LIFT®/PARAZORYNE™ and MICROBE-LIFT®/SABBACTISUN™ do not kill off the nitrifying bacteria in the filter, how are they still effective against pathogenic bacteria?

Answer:

MICROBE-LIFT®/PARAZORYNE™ and MICROBE-LIFT®/SABBACTISUN™ 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®/PARAZORYNE™ and MICROBE-LIFT®/SABBACTISUN™ 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®/PARAZORYNE™ and MICROBE-LIFT®/SABBACTISUN™ can be safely used in show tanks and ponds.

SABBACTISUN™

Effective against these

Bacterial Diseases

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

MICROBE-LIFT®/SABBACTISUN™ is a unique, herbal, immune-enhancing stimulant which reduces bacteria 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®/SABBACTISUN™ 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®/SABBACTISUN™ will help to drive pathogenic bacteria off the fish and, without a host, ultimately results in the death of the bacteria. MICROBE-LIFT®/SABBACTISUN™ is effective at reducing bacterial infections as well as ulcers and wounds, which often occur on Koi. 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 surprising short time span - MICROBE-LIFT®/SABBACTISUN™ 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®/SABBACTISUN™ to minimize infection.

MICROBE-LIFT®/SABBACTISUN™ can be used directly in any pond and is safe for all life in and around it. It is also a great aide to use when acclimating fish to a new environment.

Prices
Reduced
50%!



Ready To Use Concentrate

MICROBE-LIFT®SABBACTISUN™

- #SCON08 - 8 oz. (236 mL.) treats 590 gal. for 10 days
- #SCON16 - 16 oz. (473 mL.) treats 1,183 gal. for 10 days
- #SCON32 - 32 oz. (946 mL.) treats 2,365 gal. for 10 days
- #SCONG1 - 1 gal. (3.785 L.) treats 9,462 gal. for 10 days

Now
Affordable
for
All Ponds
with Fish!

Ready-to-Use Concentrate

PARAZORYNE™

Effective against these

Parasitic Diseases

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

MICROBE-LIFT®/PARAZORYNE™ is a unique, herbal immune-enhancing stimulant which reduces skin flukes (Gyrodactylus), gill flukes (Dactylogyrus), Ich (Ichthyophthirius multifiliis), Oodinium, Costia (Ichthyobodo necator), Chilodonella and Trichodina. 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®/PARAZORYNE™ supports the fish's immune system, driving off the excess parasites. Since they cannot return to the fish during that treatment, the majority of parasites will starve without a host. So although MICROBE-LIFT®/PARAZORYNE™ does not directly kill parasites, it is ultimately responsible for their death.

MICROBE-LIFT®/PARAZORYNE™ restores the fish's natural balance. It is not a disinfectant. It is harmless to all nitrifying filter bacteria and aquatic plants. Using chemicals can have a *detrimental effect* on the bacterial biomass of the tank/pond ecosystem. Even after a treatment, there will be some parasites present, as there will be on any healthy fish.

Use during stress,
change of seasons
and at the first sign
of disease!

Prices
Reduced
50%!

Ready To Use Concentrate

MICROBE-LIFT®/PARAZORYNE™

- #PCON08 - 8 oz. (236 mL.) treats 590 gal. for 10 days
- #PCON16 - 16 oz. (473 mL.) treats 1,183 gal. for 10 days
- #PCON32 - 32oz. (946 mL.) treats 2,365 gal. for 10 days
- #PCONG1 - 1 gal. (3.785 L.) treats 9,462 gal. for 10 days

MICROBE-LIFT®/SABBACTISUN™ and MICROBE-LIFT®/PARAZORYNE™ have so many benefits, why would anyone use antibiotics, antiparasitics or chemotherapeutics?

Antibiotics, Antiparasitics & Chemotherapeutics:

- Can kill the nitrifying (biofilter) bacteria 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®/SABBACTISUN™ and MICROBE-LIFT®/PARAZORYNE™

- 100% natural, herbal products
- MICROBE-LIFT®/SABBACTISUN™ is effective against pathogenic bacteria such as Aeromonas sp., Pseudomonas sp., Cytophaga/ Flavobacterium/ Flexibacter sp. and also many antibiotic-resistant bacteria strains
- MICROBE-LIFT®/PARAZORYNE™ is effective against parasites such as Gyrodactylus sp., Dactylogyrus sp., Chilodonella sp., Trichodina sp., Ichthyophthirius multifiliis, Ichthyobodo necator and Oodinium sp.
- Safe for all fresh and brackish water fish species and aquatic plants
- Does not result in resistance
- Non-toxic
- Does not affect nitrifying bacteria (biofilter bacteria)
- Does not color the water or stain or affect silicon sealing
- No harmful residues. MICROBE-LIFT®/SABBACTISUN™ and PARAZORYNE™ are completely biodegradable
- Environmentally friendly
- 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 biotype. To prevent recurrence, examine the underlying cause of the problem. Quarantine new fish for at least four weeks. A single dose of MICROBE-LIFT®/SABBACTISUN™ will help the fish quickly acclimate to its new environment.

When the water is poor, the immune system of the fish cannot be enhanced by MICROBE-LIFT®/SABBACTISUN™ or MICROBE-LIFT®/PARAZORYNE™. 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.



16 oz.

8 oz.

32 oz.

1 Gal.

MICROBE-LIFT® Mosquito Control

BMC BIOLOGICAL MOSQUITO CONTROL

- Biological Larvicide
- Use to prevent mosquitoes from breeding in birdbath or statuary
- Can be used in water gardens that contain live fish and plants
- 540 square foot coverage per teaspoon
- Up to 14 days activity depending on application site
- Disperses evenly in water
- No toxicity to fish, non-target invertebrates
- No adverse aesthetics to the pond
- Can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife
- EPA Registered

BMC1G4 is not for sale, distribution or use in New York state.



SIZE	ITEM #	TREATS	APPLICATION RATE
1 OZ.	BMC1	250 GALS. - 10 MOS.	Use 6 drops per 100 gals. of water. Use the dosage cup provided. Add directly to water to be treated. Use 2.5 mL. per 1,000 gals. of water (5 mL. per 2,000 gals. of water) every other week. Treat weekly if necessary.
2 OZ.	BMC2	400 GALS. - 2 YRS.	
6 OZ.	BMC6	2,000 GALS. - 16 MOS.	
12 OZ.	BMC12	2,500 GALS. - 2 YRS.	
16 OZ.	BMC16	5,000 GALS. - 17 MOS.	
1 GAL	BMC1G4	SEE LABEL	



COMBO PACK

ITEM #	CONTAINS	INCLUDES
BMCPSAM	3 PCS. BMC2 3 PCS. BMC6 3 PCS. BMC12 3 PCS. BMC16	FREE TABLETOP DISPLAY

MICROBE-LIFT® For Aquatic Plants

NEW!

MICROBE-LIFT/BLOOM & GROW MICROBIAL ROOT DIP

Enhances metabolism • Increases chlorophyll • Increases nutrient availability

ML/RD is a natural humic and microbial based product that is specifically formulated to promote a healthy and stronger root system. May be used with all water plants, as well as bog and terrestrial plants.

- Contains photosynthetic microorganisms, humic and fulvic acids
- Reduces transplant shock
- Helps to prevent pathogens
- Aids in disease resistance

1 Gal. for
PROFESSIONAL
Use Only

SIZE	ITEM #	TREATS:
4 OZ. (118 mL)	ROOTP04	SEE LABEL
1 GAL. (3.785 L)	ROOTPG1	



NEW!



1 Gal. for
PROFESSIONAL
Use Only

MICROBE-LIFT/ BLOOM & GROW NOURISH

MICROBE-LIFT/Nourish (ML/Nourish) contains combinations of naturally occurring microorganisms that share key traits for plant enhancement.

- Enhances nutrient availability
- Enhances substrate
- Contributes to enhanced microbial activity and the overall biochemical processes

SIZE	ITEM #	TREATS:
16 OZ. (473 mL)	NOUR16	4,800 GAL.
32 OZ. (946 mL)	NOUR32	9,600 GAL.
1 GAL. (3.785 L)	NOURG1	38,400 GAL.



MICROBE-LIFT® For Aquatic Plants

ENSURE

Encourages better root and blossom development and healthier overall plant growth

- Ensures a healthy start for plants and reduces transplant shock
- Increases luster of leaves and pads and reduces browning of leaf edges
- Establishes and maintains symbiotic microbial populations
- Promotes greater plant vitality and stimulates root formation and growth
- Enhances ability of plants to utilize light, water and nutrients by making the nutrients more bioavailable
- Ensures natural water conditions
- Biologically supports a good pond balance resulting in a vigorous growth environment
- Compatible with all pond fish, wildlife and the other MICROBE-LIFT products
- Improves tolerance to temperature fluctuations

This bacterial product DOES NOT contain any nutrients!



SIZE	ITEM #	TREATS	APPLICATION RATE			
			Pond Volume (Gals)	1st App. (Purge)	Next 4 Weeks (Once per Wk.)	Maintenance
32 OZ.	ENSUREQ	500 GAL POND - 2 MOS.	80-250	8 oz.	2 oz.	2 oz.
			251-500	10 oz.	3 oz.	3 oz.
			501-1,000	14 oz.	5 oz.	5 oz.
			1,001-1,500	18 oz.	6 oz.	6 oz.
GALLON	ENSUREG4	1,000 GAL POND - 20 MOS.	1,501-2,500	24 oz.	8 oz.	8 oz.
			2,501-3,500	28 oz.	10 oz.	10 oz.
			3,501-5,000	32 oz.	12 oz.	12 oz.
			5,001-7,500	40 oz.	16 oz.	16 oz.
			7,501-10,000	48 oz.	20 oz.	20 oz.

BLOOM & GROW

Specially formulated for aquatic plants of all types to promote larger, brighter and faster blooms as well as healthier and stronger roots

- Highly concentrated formula
- Contains micro and macro nutrients
- Essential primary and secondary nutrients
 - Nitrate and phosphate free
 - This product is not a fertilizer

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	BNG16	4,800 GAL.	Add one ounce per 300 gallons of pond water. For 16 oz size, 1 oz = 5 capfuls
32 OZ.	BNG32	9,600 GALS.	For 32 oz size, 1 oz = 4 capfuls
GALLON	BNGGAL	38,000 GALS.	For 1 gal size, 1 oz = 5 capfuls
16 OZ.	BNG16F	4,800 GAL.	BILINGUAL FRENCH & ENGLISH PACKAGING



CAPM

Concentrated Aquatic Planting Media with Beneficial Bacteria

Pre-colonized with heterotrophic beneficial bacteria

100% natural minerals

Will not float or cloud pond water

No fertilizer, compost, peat, or pesticides

SIZE	ITEM #	TREATS	APPLICATION RATE
10 LBS.	MLCAPM10	SEE LABEL	USE AS NEEDED
20 LBS.	MLCAPM20		

MICROBE-LIFT® Chemical Water Treatments



AQUA XTREME

- A full function , buffered water conditioner
- Detoxifies nitrite, copper and heavy metals, removes and detoxifies chlorine and ammonia, destroys chloramines, boosts alkalinity
- Adds electrolytes and a slime-coat replacer to reduce stress
- For use in ponds where chloramines are added to the water supply

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	XTP16	960 GALS.	Shake well before using. Add one teaspoon (5 mL) of MICROBE-LIFT/ Aqua Xtreme per 10 gallons of water: to fully condition tap water in new ponds; before, after or during water additions; or before adding new fish, amphibians, invertebrates or plants. For larger applications, add 1 fl. oz. per 60 gallons of water.
32 OZ.	XTP32	1,920 GALS.	
GALLON	XTPG1	7,680 GALS.	

THE ULTIMATE POND PHOSPHATE REMOVER

MICROBE-LIFT/Pond Phosphate Remover is a polymeric blend with outstanding qualities, including the ability to tie-up large quantities of phosphate without negatively influencing the pond water in any way. Phosphate - caused by the decomposition of organic substances such as food surpluses, dead plant matter and excretion - is only harmless in concentrations below 0.1 ppm in fresh water.

- Safely removes phosphate from pond water
- Will not harm fish or plants

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	PHOSRE16	UP TO 1,600 GALS.	Use one ounce (5 capfuls) of MICROBE-LIFT/Phosphate Remover per 100 gallons. Depending on water quality, organics and fish waste content, 1 ounce can remove between 1.0 - 1.5 ppm phosphate. If phosphate level is still high, repeat dose. In case of a very high phosphate level, several treatments may be required to eradicate the excess phosphate problem. Always add MICROBE-LIFT/Phosphate Remover to or near the recirculating pump.
32 OZ.	PHOSRE32	UP TO 3,200 GALS.	
GALLON	PHOSREGAL	UP TO 12,800 GALS.	



FLOCCULANT PLUS

A proprietary formulation used to coagulate suspended solids in the pond water. After use, particles in the water settle to the bottom of the pond and/or filter out through the filter system.

- Clears cloudy water
- Safe for aquatic life and plants
- Attracts and precipitates suspended particles
- Improves filtration

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	FPLUS16	UP TO 2,400 GALS.	Add one ounce (5 capfuls) per 150 gallons of CLOUDY pond water. Maintain aeration and filtration for maximum clarification. After the milky haze period, conditions should clear within 12-24 hours. Dosage may be repeated as necessary.
32 OZ.	FPLUS32	UP TO 4,800 GALS.	
GALLON	FPLUSGAL	UP TO 19,000 GALS.	
16 OZ.	FPLUS16F	UP TO 2,400 GALS.	BILINGUAL FRENCH & ENGLISH PACKAGING

MICROBE-LIFT® Chemical Water Treatments

NEW!
Improved
Formula



AMMONIA REMOVER

Gives beneficial bacteria time to multiply and recover if the biological filter gets damaged, keeping pond fish from being stressed

- Every ounce removes 1.25 ppm of toxic ammonia per 150 gallons of pond water by forming an irreversible complex to reduce free ammonia to safe levels
- May be used at startup, when making water changes, replacing lost water due to evaporation or when your pond is overstocked with too many fish
- Neutralizes residual chlorine and destroys deadly chloramine
- Treats ammonia burn in pond fish
- Safe for use with all pond fish and aquatic life

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	AMRE16	UP TO 1,440 GALS.	To remove and detoxify ammonia, chlorine and chloramines for water in ponds, add 1 teaspoonful of MICROBE-LIFT/Ammonia Remover per 15 gallons (57 L.) or 1 fl. oz. per 90 gallons of water. To remove ammonia in existing ponds add 1 teaspoonful/15 gallons of MICROBE-LIFT/Ammonia Remover for each 1.0 mg/L., or fraction thereof, of measured total ammonia (=0.85 mg/L. total ammonia-nitrogen). To control ammonia when shipping fish or invertebrates use MICROBE-LIFT/Ammonia Remover at the standard dosage rate or increase (up to 10 times) if total ammonia levels are expected to be higher than 1.0 mg/L. It is recommended for routine shipping of fishes and invertebrates that trial static shipping tests be performed to determine the typical levels of total ammonia that will occur in untreated water.
32 OZ.	AMRE32	UP TO 2,880 GALS.	
GALLON	AMREGAL	UP TO 11,520 GALS.	

NEW!

55 lbs. (24.94 Kg.)



DRY AMMONIA REMOVER

MICROBE-LIFT/Dry Ammonia Remover uses a PATENTED process that removes chlorine, DESTROYS chloramines and completely ELIMINATES the ammonia that is left behind when the chloramine bond is broken.

- Ship live animals without toxic ammonia problems for 72+ hours
- Can be combined with antibiotics and anesthetics
- Completely safe for biofilters
- Tested with shrimp, shellfish, aquatic invertebrates

SIZE	ITEM #	TREATS	APPLICATION RATE
1 LB. (.45 KG)	DAR01	3,760 GAL. (14,233 L)	For each measured or anticipated 1 mg/L total ammonia, 1 oz. of ClorAm-X will treat 235 gals. of water. It will remove 1 ppm total ammonia, 3.2 ppm chloramines and 2.0 ppm chlorine
5 LBS. (2.26 KG.)	DAR05	18,800 GAL. (71,165 L)	
10 LBS. (4.5 KG.)	DAR10	37,600 GAL. (142,331 L)	
55 LBS. (25 KG.)	DAR55		

10 lbs. (4.53 KG)

5 lbs. (2.26 KG)

1 lb. (0.45 KG)

MICROBE-LIFT® Chemical Water Treatments



PH INCREASE PLUS

Safely raises pH Levels

- Formulated in deionized water
- Includes 2 pH increasers for gentle effectiveness and 3 electrolytes to help maintain osmotic balance
- Contains a slime-coat ingredient for skin protection and stress reduction in pond fish
- Has a chelating agent to enhance water quality
- Not harmful to fish or plants

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	PHIN16	Use as directed	<p>Test pond water the same time each day (dawn=lowest pH; dusk=highest pH) for a pH reading above 8.5. Most ponds target a 7.5 pH with an alkalinity level between 100-200 ppm (normal range). Add one ounce per 375 gallons of pond water for every 1.0 pH unit change desired.</p> <p>Apply in several steps and measure change in pH before next addition. If your pond contains fish and/or plants, do not dramatically change your pH levels more than 0.5 pH unit in a 24 hour period, as not to shock aquatic life and/or fish.</p>
32 OZ.	PHIN32		
GALLON	PHINGAL		

PH DECREASE

Safely lowers pH Levels

- Formulated in deionized water
- Includes 2 pH decreasers for gentle effectiveness and 3 electrolytes to help maintain osmotic balance
- Contains a slime-coat ingredient for skin protection and stress reduction in pond fish
- Has a chelating agent to enhance water quality
- Not harmful to fish or plants

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	PHDE16	Use as directed	Same as pH Increase
32 OZ.	PHDE32		
GALLON	PHDEGAL		



7.5 BUFFER STABILIZER

Safely Buffers pH Levels & Prevents Wide pH Swings

- Includes 2 pH buffers for gentle effectiveness and 3 electrolytes to help maintain osmotic balance
- Provides necessary alkalinity for nitrification
- Not harmful to fish or plants



SIZE	ITEM #	TREATS	APPLICATION RATE
1 LB.	PHBUF1	OVER 800 GALS.	<p>To LOWER the pH and hold it at 7.5: Add 4 level scoops (included) of this buffer per 120 gals. of pond water.</p> <p>To RAISE the pH and hold it at 7.5: First adjust the pH with MICROBE-LIFT/pH Increase Plus. Next, add four level scoops of this buffer per 120 gallons of pond water.</p> <p>Application Rates: 6 lbs. will treat over 4,900 gallons/18,000 Liters.</p>
4 LBS.	PHBUF4	OVER 3,300 GALS.	
6 LBS.	PHBUF6	OVER 4,900 GALS.	

NEW!



8 lbs. (3.62 kg.)

2 LBS. (0.9 KG.)

KH - ALKALINITY BIO-ACTIVE BOOSTER

The biological removal of ammonia (nitrification) is one of the most important functions in a pond. This essential microbial process requires the presence of carbonate alkalinity in pond water at all times, as the biological ammonia removal process utilizes 7.1 mgs. of carbonate alkalinity for every 1 mg. of ammonia removed by nitrification.

Should pond carbonate levels fall below the necessary level, nitrification will stop and will fail to start again. With the loss of carbonate alkalinity pH levels will vary and pH be difficult to control as carbonate alkalinity stabilizes pond pH.

SIZE	ITEM #	TREATS:
2 LBS. (0.9 KG.)	CABPSM	SEE LABEL
8 LBS. (3.62 KG.)	CABPMD	
20 LBS. (9.07 KG.)	CABPLG	
50 LBS. (22.67 KG.)	CABPXL	

DEFOAMER

Eliminates foam in seconds!

Gets rid of unsightly foam fast, leaving pond water clean and clear. Persistent foaming can indicate a heavy concentration of undissolved organics. Partial water changes can improve water quality which will help reduce foaming.

- Leaves pond and fountain water clean and clear
- For ponds and fountains of all sizes
- Safe for fish, plants, birds, and aquatic life

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	DFOAM16	UP TO 8,000 GALS.	Add one ounce (5 capfuls) per 500 gallons of pond water
32 OZ.	DFOAM32	UP TO 16,000 GALS.	
GALLON	DFOAMGAL	UP TO 64,000 GALS.	



NEW!
Improved
Formula



DECHLORINATOR +

- Highly concentrated for maximum dechlorination, detoxification, and water conditioning
- Instantly neutralizes chlorine, chloramines, chlorine dioxide, copper and other heavy metals without scavenging oxygen as other dechlorinators do
- Contains 2 slime-coat ingredients and electrolytes for stress

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	DECHL16	UP TO 960 GALS.	To condition water for new ponds, before, after or during water additions, or before adding new fish, amphibians, invertebrates or plants, add 1 teaspoonful (5 mL.) of MICROBE-LIFT/Dechlorinator+ Water Conditioner per 10 gallons (38 L) of water. Add to transport bags at the same dosage. For larger applications use the following measurements: 1 fl. oz. (30 mL.)/60 gal. (225 L).
32 OZ.	DECHL32	UP TO 1,920 GALS.	
GALLON	DECHLGAL	UP TO 7,680 GALS.	

MICROBE-LIFT® Skimmer and Filter Media Treatments

SUPER START BEAD FILTER BACTERIA - FOR ALL BEAD & BIOLOGICAL FILTERS

NATURAL - NONTOXIC - NONPATHOGENIC

Like most types of mechanical/biological filters, bead filters rely on the use of a media that provides a high surface area/volume ratio. This allows for support of the necessary amount of biomass, in the form of biofilm, to properly remove organic and inorganic waste from the water, making it suitable for fish and other normal aquatic life. Within the biofilm it is possible to carry out aerobic, facultative anaerobic and chemosynthetic processes if all the necessary bacterial species are present.

Consequently, for these filters to function, it is necessary to have proper numbers and distribution of species. MICROBE-LIFT/SUPER START contains aerobic heterotrophs, facultative anaerobes, anaerobic and chemotrophic bacteria capable of carrying out all the necessary processes for optimum performance of bead filters.

- Rapid establishment of organic removal capabilities
- Rapid establishment of nitrogen cycling including nitrification and denitrification
- Reduces buildup of residue in the filter, decreasing maintenance and improving filter efficiency by avoiding "channeling."
- Rapid recovery of filter after use of medications and antibiotics
- Breakdown of residual medications, like tea tree oils and formalin products, which are inhibitory to most bacteria, after use
- Effective over a wide pH range
- Significantly reduces noxious odors caused by algae, fish, waste and urine
- Reduces hydrogen sulfide, which creates strong, offensive odors

SIZE	ITEM #	TREATS	APPLICATION RATE	
32 OZ.	MLBFBQ	UP TO 500 GALS./ 10 TREATMENTS UP TO 1,000 GALS./ 8 TREATMENTS	Pond Volume (Gals.)	Dosage
			80-200	2 oz.
			201-500	3 oz.
GALLON	MLBFBG4	UP TO 1,000 GALS./ 32 TREATMENTS	501-1,000	4 oz.
			1,001-5,000	6 oz.
			When starting up the filter, apply MICROBE-LIFT/Superstart for 4 weeks. After cleaning the filter apply for 2 weeks.	



PL/GEL FILTER PAD INOCULANT

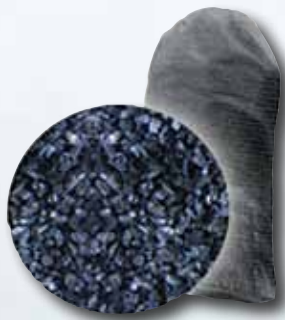
MICROBE-LIFT/PL Gel is a technological breakthrough because it's *the first product* that puts the bacteria right where you want it and it *STAYS THERE!* PL/Gel will quickly attach to and populate any filter media including foam, strapping, floss, bio-balls, ceramic media, etc. This will help to rapidly establish the necessary biological activity in your filter to stabilize your pond's environment quickly. It will also help restore this activity to your filter when you clean or change the media.

- Easily applies to filter pads and media without running or getting messy.
- Contains the same broad-spectrum of bacteria found in MICROBE-LIFT/PL.
- Contains naturally occurring biopolymers, helping organisms quickly attach to media allowing for 80% reduction in filter start-up time.
- Helps to stabilize pond environment quickly upon startup and to eliminate transient instability that can occur when filter media is cleaned or replaced.
- Allows for more frequent cleaning of filters without subsequent instability if a pond has a high solids loading where frequent cleaning is beneficial
- Reduces the frequency of cleaning by accelerating the breakdown of organic solids that can lead to high maintenance requirements
- Helps to establish denitrification in the filter which can lower nitrate levels in the pond



SIZE	ITEM #	TREATS	APPLICATION RATE	
8 OZ.	GEL8	UP TO 200 GALS./ 4 TREATMENTS	Pond Volume (Gals.)	Dosage
			80-200	2 oz.
16 OZ.	GEL16	UP TO 1,000 GALS./ 5 TREATMENTS	201-500	3 oz.
			501-1,000	4 oz.
			1,001-5,000	6 oz.
32 OZ.	GEL32	UP TO 5,000 GALS./ 5 TREATMENTS	Inoculate (spread) PL/GEL directly on the filter pad or media. The PL/GEL will absorb into the pad/media by letting it set 1-2 hours before turning the pump, filter and skimmer back on (provided water can maintain adequate oxygenation without circulation for this amount of time.) Repeat application of PL/GEL with each cleaning/replacement of filter pads/media, when nitrate levels exceed 0.6 mg/L or as necessary to maintain optimum performance from your filter or skimmer. Note: Please store in a cool location.	

MICROBE-LIFT® Skimmer and Filter Media Treatments



SUPER ACTIVATED CARBON - BAG

- Removes odors and colors
- Removes medications, organic pollutants
- Removes liquefied impurities
- Highest grade available*
- Lasts twice as long as most carbons
- Treats twice as much as most carbons
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT DRY HETEROTROPHIC BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
20 PCS. - 1 LB. PRE-PACKED NYLON BAGS	CAR1	UP TO 4,000 GALS. FOR 2-3 MONTHS	Small Ponds - Typically, 1 lb. per 200 gallons of pond water for 2-3 months Medium Ponds - 2-3 lbs. per 500 gallons of pond water for 2-3 months Large Ponds - Approximately 5 lbs. per 1000 gallons of pond water for 2-3 months depending on the load of debris or discoloration.



CERAMIC RINGS - BAG

- 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
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT DRY HETEROTROPHIC BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
20 PCS. - 2 LBS. PRE-PACKED NYLON BAGS	CRING2	SEE LABEL	The quantity to use is limited only by the design and capacity of your filter.



BULK MINI PADS

- 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 pond
- May be replaced or cleaned and re-colonized

SIZE	ITEM #	TREATS	APPLICATION RATE
500 PC. BOX	BSPAD500	SEE LABEL	The quantity to use is limited only by the design and capacity of your filter.
1,000 PC. BOX	BSPAD1000		



BULK PINBALLS

- 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

SIZE	ITEM #	TREATS	APPLICATION RATE
125 PC. BOX	BBALL125	1 CUBIC FT. = 600 PINBALLS	The quantity to use is limited only by the design and capacity of your filter.
250 PC. BOX	BBALL250		
500 PC. BOX	BBALL500		
1,000 PC. BOX	BBALL1000		
2,000 PC. BOX	BBALL2000		

MICROBE-LIFT® Skimmer and Filter Media Treatments



ZEOLITE-BAGS

(NO LIQUID BACTERIA)

- Removes ammonia
- Improves water quality
- Reduces fish stress
- Protects against ammonia spikes
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT DRY HETEROTROPHIC BACTERIA**

SIZE	ITEM #	APPLICATION RATE
20 PCS. - 2 LBS. PRE-PACKED NYLON BAGS	ZE02	Small Ponds - 2 lbs. per 200 gals. Medium Ponds - 4 lbs. per 500 gals. Large Ponds - 6 lbs. per 1,000 gals.

CARBON PELLETS & ZEOLITE-BAGS

(NO LIQUID BACTERIA)

- Removes ammonia
- Reduces fish stress
- Removes liquefied impurities
- Removes medications, organic pollutants
- Improves water quality
- Removes odors and colors
- Helps clear turbid water
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT DRY HETEROTROPHIC BACTERIA**



SIZE	ITEM #	APPLICATION RATE
20 PCS. - 2 LBS. PRE-PACKED NYLON BAGS	CARZ2	Small Ponds - Typically, 1 lb. per 200 gallons of pond water for 2-3 months Medium Ponds - 2-3 lbs. per 500 gallons of pond water for 2-3 months Large Ponds - Approximately 5 lbs. per 1,000 gallons of pond water for 2-3 months depending on the load of debris or discoloration.

MEDIA BAGS

For use with Barley Pellets, Peat, Zeolite, Carbon, Bio-Balls, and all types of media.

SIZE	ITEM #
8" X 14"	MBAGSM
15" X 16"	MBAGMD
20" X 20"	MBAGLG
22" X 32"	MBAGXL



PRE-COLONIZED MEDIA

by Mark J. Krupka, VP & Technical Director, Ecological Laboratories, Inc.

Buying media without bacteria is like buying a car without gasoline. The car may have the potential to transport you from place to place but you won't get very far without gas. In the same way, the media you put into a filter or a skimmer may have the potential to treat the water from your pond, but it cannot do anything until it becomes colonized with beneficial bacteria. Just as it makes more sense to buy a car with a full tank of gas, it also makes more sense to buy pre-colonized media so that you can derive the benefits from your filter or skimmer right away instead of waiting days to weeks for a biofilm to develop.

Of course, how beneficial pre-colonization is depends on the organisms with which the media is pre-colonized. Probably the most important bacteria to have on a pond filter media with fish are nitrifiers - the organisms that oxidize ammonia to nitrite and nitrate. This is because nitrifiers grow very slowly with growth rates 10 to 20 times slower than most heterotrophic (organic degrading) bacteria. Another reason colonizing with nitrifiers is beneficial is that ammonia buildup is one of the most significant problems that occur early on in the startup of a pond since ammonia can be toxic to fish at relatively low concentrations.

While heterotrophs (organic degrading bacteria) do grow faster, colonizing certain types of media - like activated carbon and carbon-zeolite combinations - can extend the useful life of the media. They do this by metabolizing organics and certain inorganic species that can be absorbed onto activated carbon and zeolites. Much like carbon, which is thermally regenerated using high temperatures to oxidize these absorbed materials, the bacteria can enzymatically oxidize these same compounds.

MICROBE-LIFT/BIOBALLS. BIO-MINI SPONGES, CERAMIC BIO-RINGS and ZEOLITE are pre-colonized media loaded with the Nitrosomonas, Nitrobacter and Nitrospira which make up the nitrifying bacteria in MICROBE-LIFT/NITE-OUT II. The MICROBE-LIFT pre-colonized media will provide for cycling of the nitrogen in your pond within hours, rather than days or even weeks. Using MICROBE-LIFT pre-colonized media will substantially reduce the potential for ammonia toxicity and allow for rapid stabilization of your pond. Get the "high octane" media for your filter or skimmer and watch them hum.

MICROBE-LIFT® Skimmer and Filter Media Treatments

All Pre-Colonized with Bacteria

BIOLOGICAL CERAMIC RINGS



- 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
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT LIQUID NITRIFYING BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
1.25 GAL. NITE-OUT II BACTERIA & 5 PCS./32 OZ. BAGS	PCRINGMBS	375 GALS./8-12 MOS. 750 GALS./4-6 MOS. 1,500 GALS./2-3 MOS.	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 pond. Use 1 bag for up to 150 gallons of pond water. Test your pond water weekly!
1.5 GAL. NITE-OUT II BACTERIA & 10 PCS./32 OZ. BAGS	PCRINGMBM	750 GALS./8-12 MOS. 1,500 GALS./4-6 MOS. 3,000 GALS./2-3 MOS.	

ZEOLITE



- Removes ammonia
- Improves water quality
- Reduces fish stress
- Protects against ammonia spikes
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT LIQUID NITRIFYING BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
1 GAL. NITE-OUT II BACTERIA & 5 PCS./32 OZ. BAGS	PZEOBAGS	375 GALS./8-12 MOS 750 GALS./4-6 MOS 1,500 GALS./2-3 MOS	The zeolite chips may be re-charged (recharge by cleaning monthly). After cleaning be sure to re-colonize the zeolite with MICROBE-LIFT Nite-Out II™, nitrifying bacteria for immediate nitrification. For best results change the bags every 4-6 months. Use 1 bag for up to 150 gallons of pond water. Test your pond water weekly!
1.5 GAL. NITE-OUT II BACTERIA & 10 PCS./32 OZ. BAGS	PZEOBAGM	750 GALS./8-12 MOS 1,500 GALS./4-6 MOS 3,000 GALS./2-3 MOS	

BIOLOGICAL PIN BALLS



- 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
- **PRE-COLONIZED WITH MICROBE-LIFT LIQUID NITRIFYING BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
1.5 GAL. NITE-OUT II BACTERIA & 148 PCS. BIO BALLS	PBBALLS	SEE LABEL	The quantity to use is limited only by the design and capacity of your filter.
2.5 GAL. NITE-OUT II BACTERIA & 296 PCS. BIO BALLS	PBBALLM		

ACTIVATED CARBON & ZEOLITE PELLETS



- Removes ammonia
- Improves water quality
- Reduces fish stress
- Removes odors and colors
- Removes medications
- Removes organic pollutants
- Removes liquefied impurities
- Helps clear turbid water
- In pre-packed media bags
- **PRE-COLONIZED WITH MICROBE-LIFT DRY HETEROTROPHIC BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
5 PCS./32 OZ. BAGS	PCARZBAGS	375 GAL/12 WKS 750 GAL/6 WKS 1,500 GAL/3 WKS	For best results, change the bags every 6 weeks. Rinsing this filter bag will only remove the loose debris from the carbon, not the absorbed impurities. Use 1 bag for up to 150 gallons of pond water. Test your pond water weekly!
10 PCS./32 OZ. BAGS	PCARZBAGM	750 GAL/12 WKS 1,500 GAL/6 WKS 3,000 GAL/3 WKS	
15 PCS./32 OZ. BAGS	PCARZBAGLG	1,125 GAL/12 WKS 2,250 GAL/6 WKS 4,500 GAL/3 WKS	

PLEASE NOTE: DUE TO MANY REQUESTS, WE ARE NOW PACKING ZEOLITE AND ACTIVATED CARBON IN SEPARATE BAGS. MANY CUSTOMERS WISH TO USE THEIR OWN FORM OF CARBON TO ZEOLITE RATIOS.

MICROBE-LIFT® Skimmer and Filter Media Treatments



BULK ACTIVATED CARBON PELLETS

- Removes odors
- Removes colors
- Removes medications
- Removes organic pollutants
- Removes liquefied impurities

SIZE	ITEM #	TREATS	APPLICATION RATE
5 LBS. 3 OZ.	CARMD	UP TO 1,000 GALS.	Small Ponds: Typically, 1 lb. per 200 gals. (750 L.) of pond water for 2-3 mos. Medium Ponds: 2-3 lbs. per 500 gals. (1875 L.) of pond water for 2-3 mos. Large Ponds: Approximately 5 lbs. per every 1,000 gals. (3750 L.) of pond water for 2-3 months depending on the load of debris or discoloration.
9 LBS. 12 OZ.	CARLG	UP TO 1,800 GALS.	
22 LBS.	CARXL	UP TO 4,400 GALS.	
55 LBS.	CARBAG	UP TO 11,000 GALS.	



SUPER ACTIVATED CARBON

- Removes odors and colors
- Removes organic pollutants
- Highest grade available*
- Lasts twice as long as most carbons
- Treats twice as much as most carbons
- In pre-packed media bags
- Removes medications
- Removes liquefied impurities
- **PRE-COLONIZED WITH MICROBE-LIFT DRY HETEROTROPHIC BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
5 PCS./16 OZ. BAGS	PCARBAGS	375 GALS./12 WKS 750 GALS./6 WKS 1,500 GALS./3 WKS	Carbon absorbs impurities, rinsing the bags will only remove the loose debris and not the absorbed impurities. Use 1 bag for up to 150 gallons of pond water. Change the bags every 6 weeks. Test your pond water weekly!
10 PCS./16 OZ. BAGS	PCARBAGM	750 GALS./12 WKS 1,500 GALS./6 WKS 3,000 GALS./3 WKS	
15 PCS./16 OZ. BAGS	PCARBAGL	1,125 GALS./12 WKS 2,250 GALS./6 WKS 4,500 GALS./3 WKS	



BIOLOGICAL MINI PADS

- 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 pond
- May be replaced or cleaned and re-colonized
- **PRE-COLONIZED WITH MICROBE-LIFT LIQUID NITRIFYING BACTERIA**

SIZE	ITEM #	TREATS	APPLICATION RATE
1.75 GAL. NITE-OUT II BACTERIA & 250 PCS. MINI PADS	PMBSPADS	SEE LABEL	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 the Mini Pads every season.
2.75 GAL. NITE-OUT II BACTERIA & 500 PCS. MINI PADS	PMBSPADM		

MICROBE-LIFT® Pond Professional/Lake Management



PBL PROFESSIONAL BLEND LIQUID

(VEGETATIVE CULTURES)

A blend of microbes that contain specially formulated strains of bacteria manufactures for use by landscape, irrigation and pond professionals. Contains photosynthetic bacteria.

NOT FOR CONSUMER USE.

SIZE	ITEM #	TREATS	APPLICATION RATE			
			Pond Volume (Gals.)	1st App. (Purge)	Next 4 Weeks (Once per Wk.)	Maintenance
32 OZ.	10PBLXQ	UP TO 50,000 GALS.	80-200	3 oz.	2 oz.	2 oz.
			201-500	10 oz.	3 oz.	3 oz.
			501-1,000	12 oz.	4 oz.	4 oz.
1 GALLON	10PBLXG4	UP TO 300,000 GALS.	1,001-5,000	16 oz.	6 oz.	6 oz.
			5,001-10,000	32 oz.	16 oz.	16 oz.
			10,001-50,000	64 oz.	28 oz.	28 oz.
1 GALLON	10PBLXG6	UP TO 300,000 GALS.	50,001-100,000	1 gal.	48 oz.	48 oz.
			100,001-300,000	2 gal.	1 gal.	1 gal.
			300,001-500,000	4 gal.	1.5 gal.	1.5 gal.
5 GALLON	10PBLX5G	UP TO 1,500,000 GALS.	500,001-1,000,000	8 gal.	3 gal.	3 gal.
			1,000,001-2,000,000	20 gal.	4 gal.	3 gal.

SIZE	ITEM #	TREATS	APPLICATION RATE			
50 PCS. - 2 OZ. PACKETS	10PBD2X50	SEE LABEL	Pond Volume (Gals)	1st App. (Purge)	Next 4 Wks. (Once per Wk.)	Mainte- nance
100 - 2 OZ. PACKETS	10PBD2X100		80-500	1	1	1
			501-1,000	2	2	2
			1,001-5,000	3	3	3
200 - 2 OZ. PACKETS	10PBD2X200		5,001-7,500	4	4	4
			7,501-10,000	5	5	5
25 PCS. - 8 OZ. PACKETS	10PBD8X25		5,001-10,000	2	1	1
			10,001-50,000	8	3	3
			50,001-100,000	12	5	5
			100,001-300,000	20	8	8
50 PCS. - 8 OZ. PACKETS	10PBD8X50		300,001-500,000	28	10	10
			500,001-1,000,000	40	16	16
		1,000,001-2,000,000	60	24	24	

PBD PROFESSIONAL BLEND DRY

A concentrated version of the popular MICROBE-LIFT consumer bacteria & enzyme packets.

Use PBD to get your pond ready for a clean and clear spring.



BMC BIOLOGICAL MOSQUITO CONTROL

- Biological larvicide
- Can be used in water gardens that contain live fish and plants
- 540 square foot coverage per tsp.
- Up to 14 days activity depending on application site
- Disperses evenly in water
- No toxicity to fish or non-target invertebrates
- No adverse aesthetics to the pond
- Can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.
- EPA Registered

Please note: Gallon size of BMC is not available for sale, use or distribution in New York state

SIZE	ITEM #	TREATS	APPLICATION RATE
GALLON	BMC1G4	LARGE BODIES OF WATER	SEE LABEL

MICROBE-LIFT® Pond Professional/Lake Management



GOLF

- Environmentally friendly
- Creates a healthy pond environment
- Safe for fish and plants
- Breaks down dead algae
- Reduces build up of wildlife fecal matter
- Reduces noxious odors
- Contains photosynthetic bacteria

SIZE	ITEM #	TREATS	APPLICATION RATE			
GALLON	10GOLF6	SEE LABEL	Pond Vol. (Gals)	1st App. (Purge)	Next 4 Wks. (Once per Wk.)	Maintenance
			5,000-10,000	2 gals.	16 oz	16 oz.
			10,001-50,000	2-1/2 gals.	20 oz.	20 oz.
50,001-100,000	3 gals.		24 oz.	24 oz.		
5 GALLON	10GOLFX5G		100,001-300,000	3-1/2 gals.	1 qt.	1 qt.
			300,001-500,000	4 gals.	1/2 gal.	1/2 gal.
			500,001-1,000,000	8 gals.	1 gal.	1 gal.
		1,000,001-2,000,000	12 gals.	1-1/2 gals.	1-1/2 gals.	

ALGAWAY 60

- Chemical algae eliminator formulated for decorative, irrigation and retention ponds, water hazards and fountains
- Eliminates most planktonic and filamentous algae quickly and efficiently so there is no plugging of irrigation lines and pumps
- Safe for irrigation, turf, and shrubs
- EPA Registered

Please note: Algaway 60 is not available for sale, use or distribution in New York state



SIZE	ITEM #	TREATS	APPLICATION RATE
32 OZ.	AAG60Q	SEE LABEL	<p>It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.</p> <p>Algaway 60 is used to control the growth of algae in decorative fountains and ponds that <u>do not contain fish</u>. For maximum effectiveness decorative fountains and ponds containing heavy algae growth should be cleared prior to using Algaway 60.</p> <p>Decorative fountains and ponds having just visible algae growth require an initial dose of 1-2 fluid ounces of Algaway 60 per 1,000 gallons of water. Subsequent additions of 0.2 to 0.4 fluid ounces of Algaway 60 should be made every 5-7 days after initial treatment for maintenance. Algaway 60 is effective at both acid and alkaline pH.</p> <p>Note: Cannot be used in ponds with fish and aquatic plants</p>
GALLON	AAG60XG4		
5 GALLON	AAG60X5G		

ALGAE CONTROL SYSTEM

A two part system for the elimination of algae and for pond ecosystem balance. Algaway 60 will keep your pond algae free and ML/Golf will keep the water clear and the bottom free from heavy deposits of organic sediments.

Contains: 2 gallons Microbe-Lift/Algaway 60 and 4 gallons Microbe-Lift/Golf
Algaway 60 is EPA Registered



Please note: Algaway 60 is not available for sale, use or distribution in New York state.

SIZE	ITEM #	TREATS	APPLICATION RATE
6 - 1 GAL	G2PACS	128,000 GALS.	SEE LABEL

MICROBE-LIFT® Lake Management & Contractor Products

BIO-BLUE ENZYMES & POND COLORANT

Specially formulated to color lakes, lagoons, decorative ponds, fountain, and water features a beautiful shade of blue

Will not stain birds, fish, pond rocks, or most concrete fountains once diluted
Enzymes assist beneficial bacteria in your pond create a healthy environment.

Safe for humans, plants and aquatic life.

Mixes completely in hours.



SIZE	ITEM #	TREATS	APPLICATION RATE
8 OZ.	MLBB8	4,000 GALS.	Use 1/2 oz. per 250 gallon pond
16 OZ.	MLBB16	8,000 GALS.	Use 1 oz. per 500 gallon pond
GALLON	MLBBG4	64,000 GALS.	Use 2 oz. per 1,000 gallon pond
5 GALLON	MLBB5	320,000 GALS.	1 gallon per surface acre 4 ft. to 6 ft. deep
16 OZ.	MLBB16F	8,000 GALS.	BILINGUAL FRENCH & ENGLISH PACKAGING



BIO-BLACK ENZYMES & POND COLORANT

Specially formulated to safely color reflecting ponds black

Will not stain birds, fish, pond rocks, or most concrete fountains once diluted

Enzymes assist beneficial bacteria in your pond to create a healthy environment.

Safe for humans, plants and aquatic life.

Mixes completely in hours

SIZE	ITEM #	TREATS	APPLICATION RATE
8 OZ.	BIOBLK08	4,000 GALS.	Use 1/2 oz. per 250 gallon pond Use 1 oz. per 500 gallon pond
16 OZ.	BIOBLK16	8,000 GALS.	Use 2 oz. per 1,000 gallon pond 1 gallon per surface acre 4 ft. to 6 ft. deep
16 OZ.	BIOBLK16F	8,000 GALS.	BILINGUAL FRENCH & ENGLISH PACKAGING

CONTRACTOR KITS

This contractor maintenance package has all the bacteria required for a whole season. The products come in a handy carrying bucket.

SK1 contains:

BARLEY STRAW CONCENTRATED EXTRACT 16 oz.
SPRING/SUMMER CLEANER
MICROBE-LIFT/PL 32 oz.
AUTUMN/WINTER PREP 32 oz.
ML/SLUDGE AWAY 32 oz.



SIZE	ITEM #
5 PIECES	SK1

SK2 contains:

All of the products in SK1 plus
SUMMER STAPLE FISH FOOD 13 oz.



SIZE	ITEM #
6 PIECES	SK2

MICROBE-LIFT® Test Strips for Water Quality



FRESH WATER

AMMONIA TEST STRIPS

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

SIZE	ITEM #	TREATS	APPLICATION RATE
50 TEST STRIPS	TESTAMM	50 WEEKS IF USED AS DIRECTED	See label

FRESH & SALTWATER

PHOSPHATE TEST STRIPS

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

SIZE	ITEM #	TREATS	APPLICATION RATE
50 TEST STRIPS	TESTPHOS	50 WEEKS IF USED AS DIRECTED	See label

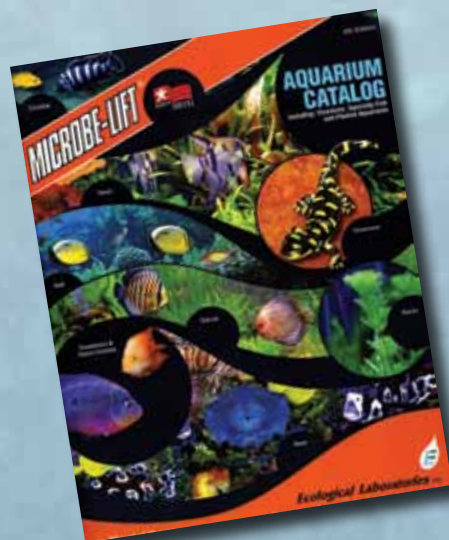


FRESH WATER

5-IN-1 TEST STRIPS

Tests:
Nitrate
Nitrite
Total Hardness
Total Alkalinity
pH

SIZE	ITEM #	TREATS	APPLICATION RATE
50 TEST STRIPS	TEST5	50 WEEKS IF USED AS DIRECTED	See label



SALTWATER TEST STRIPS

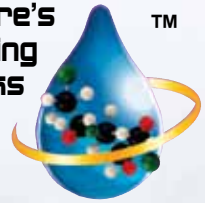
See our Aquarium Product catalog for more test kits that are specific to salt water fish.

MICROBE-LIFT

LEGACY KOI & GOLDFISH FOOD

with

Nature's
Building
Blocks



A Bacterial Diet for Fish

MICROBE-LIFT®/LEGACY foods are made by the extrusion process - not pelleting. During extrusion the cell walls of all organic substances contained in the food are disintegrated under pressure. The nutrients hidden in these cells are thus easily accessible for digesting agents, resulting in much higher digestibility in comparison with pelleted or flaked food. Additionally the LEGACY foods have an extremely low phosphorous content. This keeps fish waste to a minimum and helps to ensure superior water quality.

UV Resistant Packaging

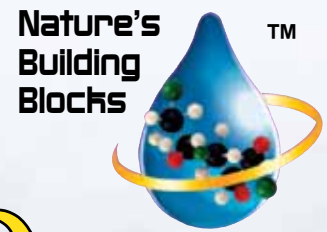


Feeding A Whole New Standard...

It's not just a fish food, it's a complete nutritional feeding system!

MICROBE-LIFT®

LEGACY KOI & GOLDFISH FOOD



with Nature's Building Blocks™

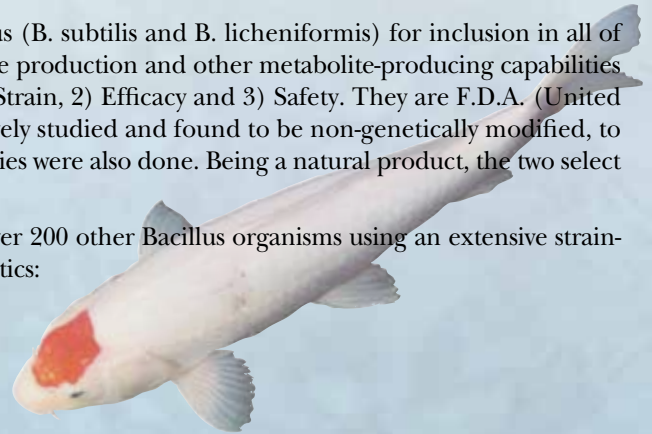
The concept of probiotics, or direct-fed microbial (DFM) began in the early 1950's when researchers observed a positive growth response in animals fed with antibiotics. This observation led researchers to theorize that intestinal microflora may play a role in health and vitality. Continued research has determined that a delicate balance exists in the intestinal tract between beneficial and potentially harmful bacteria. The balance of these two groups of bacterial is an important factor.

Microbial balance in the fishes' intestinal tract may be upset by a stressor, such as shipping, diet change, water quality/temperature change, environmental change, addition of new aquatic life, etc. If the intestinal population of beneficial bacteria decrease and the potentially harmful bacteria increase, it is possible to compromise fish health and performance. Additionally, koi and goldfish have no stomachs so it is important that enzyme producers survive and germinate in the intestine.

Ecological Laboratories, Inc. has specifically selected two strains of Bacillus (B. subtilis and B. licheniformis) for inclusion in all of its fish foods. These two strains have been selected for their efficient enzyme production and other metabolite-producing capabilities under intestinal tract conditions. These two strains have been tested for 1) Strain, 2) Efficacy and 3) Safety. They are F.D.A. (United States) and E.U. (European Union) approved. These strains were extensively studied and found to be non-genetically modified, to be genetically stable and to produce no toxins. Environmental impact studies were also done. Being a natural product, the two select strains pose no threat in any of the above areas.

The strains in Nature's Building Blocks™ were specifically selected from over 200 other Bacillus organisms using an extensive strain-screening process. The two strains were chosen for the following characteristics:

- Spore forms so they would survive extrusion conditions
- Natural nonpathogenic microorganisms
- Utilize a large number of carbohydrates for their growth
- Secrete a range of relevant enzymes (protease, lipase, amylase)



The strains in Nature's Building Blocks™ produce and secrete a variety of enzymes. These enzymes break down carbohydrates, proteins and fats into smaller, more easily digested nutrients. The nutrients are used for growth, health and vitality. This is especially important in fish that have no stomach and use their intestinal tract for digestion.

Please Note: In addition to the above, the MICROBE-LIFT line of LEGACY Koi and Goldfish foods taste good! Just ask your fish!

The Microbe-Lift® / LEGACY™ 7-Day Nutritional Feeding System

Koi will eat practically anything humans will eat. They are classified as "omnivores," which means they will eat foods which are derived from plants and animals. It is important to make sure your koi get fed a daily diet that is "well balanced." The MICROBE-LIFT/LEGACY 7 Day Balanced Feeding System™ is prepared to provide the highest level of all required nutrients. All six nutrients are formulated into all MICROBE-LIFT/Koi & Goldfish Foods. There are proteins, carbohydrates, fats, vitamins, minerals and water (moisture content). These nutrients provide your koi with body heat, energy, growth material and strengthen their immune system. Every koi has its own nutrient requirements due to its individual size, sex, environment and genetic make-up. Koi are ravenous feeders. They will consume a lot of food in short periods. Koi have no stomach, so while we say it is important to feed them at least twice a day, morning and evening, smaller feedings more often is the more preferred method.

Water temperature is the most important factor in determining what kind of food to feed your fish. The quantity of food required also depends on the size of the fish. The koi's "biological rate" is the rate at which the energy derived from their food is utilized (metabolic rate). It is influenced by the temperature of your pond's water.

Depending on water temperature, choose one of the three primary foods and feed it three days per week (every other day). Alternate with the two supplemental foods (Fruits and Greens and Immunostimulant™, four days per week (every other day). When following the MICROBE-LIFT/LEGACY 7 Day Balanced Feeding System™ your fish will have a totally balanced diet while achieving maximum health benefits.

MICROBE-LIFT®/Legacy – Not Just A Fish Food

It's a complete nutritional feeding system!

The MICROBE-LIFT/LEGACY™ Nutritional Feeding System is comprised of the finest cold water fish food formulas on the market today. Each food is manufactured with the highest quality ingredients selected for optimum growth and the latest technology for digestibility and color enhancement. All MICROBE-LIFT / LEGACY™ foods contain the lowest ash content and the highest percentage of digestibility.

Formulation

Dr. Carl Webster has served as our consultant in the formulation of the MICROBE-LIFT/LEGACY™ Nutritional Feeding System. Dr. Webster is currently a professor at one of the top aquaculture research centers in the United States and is also principal investigator for aquaculture nutrition.

Education

In addition to earning his Ph.D. in Aquaculture (finfish and crustacean nutrition) from Auburn University in 1989, Dr. Webster received his B.A. in Zoology from Drew University in 1982 and his Master's degree in Herpetology from Southern Illinois University at Edwardsville in 1984.

Research Focus

Dr. Webster's research is focused on clarifying the nutritional requirements of aquaculture species with actual or potential economic importance to the United States, to design and implement basic and applied nutritional experiments on finfish and crustacean aquaculture species, to design and develop a finfish and crustacean nutrition program, and to assist interested producers and feed mills in formulation of nutritious, economically viable aquaculture diets. Currently, Dr. Webster is working on crustacean/finfish nutrition and diet formulation.



Dr. Carl Webster

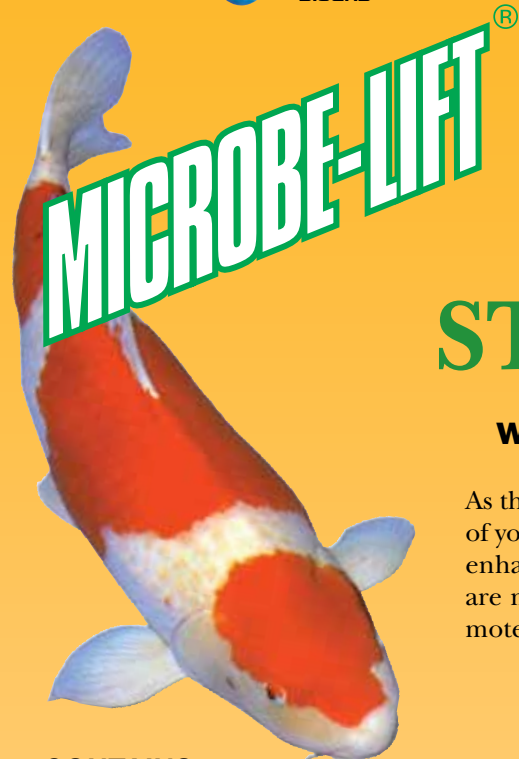
Specs for MICROBE-LIFT Fish Feed			
NAME OF FEED	SIZE (LENGTH)	COLOR	SHAPE
FRUITS AND GREENS	0.5 - 1.0 CM	REDDISH BROWN	MEDIUM ROD
HIGH GROWTH & ENERGY	0.3 - 0.7 CM	REDDISH BROWN	MEDIUM SPHERICAL ROD
IMMUNOSTIMULANT	0.4 - 1.0 CM	LIGHT BROWN	MEDIUM ROD
MINI PELLETS	0.1 - 0.2 CM	BROWN	SMALL SPHERICAL ROD
SUMMER STAPLE	0.3 - 0.5 CM	GREENISH BROWN	MEDIUM SPHERICAL ROD
WHEAT GERM	0.3 - 0.5 CM	BROWN	MEDIUM ROD
SINKING PELLETS	0.3 - 0.7 CM	BROWN	MEDIUM ROD
BIG BITES	0.6 - 0.8 CM	GREENISH BROWN	BIG SPHERICAL ROD

Contains



TM with
Nature's
Building
Blocks

A Source of Live (Viable) Naturally Occurring Microorganisms



CONTAINS
STABILIZED
VITAMIN C

MICROBE-LIFT[®] LEGACY SUMMER STAPLE FOOD[™]



with **Added Color Enhancers**

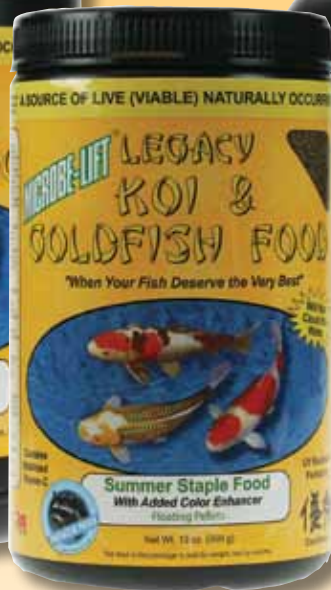
As the warmer weather sets in, begin increasing the frequency and quantity of your feeding. The Summer Staple Food has the animal protein and color enhancers that are needed during this season. The added color enhancers are made up of astaxanthin (crab shell), spirulina and krill, which all promote brilliant color development.

優秀
Excellence

Will Not
Cloud the
Water



2 LBS.



10 OZ.



4 LBS. 12 OZ.



14 LBS.

Primary Food

Feed a Primary food
every other day,
3 days per week.



SIZE	ITEM #	GUARANTEED ANALYSIS	
10 OZ.	MLLSSSM	Crude Protein (min.)	36%
2 LBS.	MLLSSMD	Crude Fat (min.)	6%
		Crude Fiber (max.)	5%
4 LBS. 12 OZ.	MLLSSLG	Moisture (max.)	8%
14 LBS.	MLLSSXL	Ash (max.)	9%
		Phosphorus (max.)	1.3%
40 LBS.	MLLSSBAG	Copper (min.)	7 mg/kg

Contains



with
Nature's
Building
Blocks[®]

A Source of Live (Viable) Naturally Occurring Microorganisms

LEGACY

COLD WEATHER FOOD (WHEAT GERM)

Spring/Fall Formula - Floating Pellets

In the cold weather during spring and fall when the night-time temperature goes below 65° F (18° C) feed the Cold Weather formula. When the pond water's temperature drops, the fish require a highly digestible cool-water diet. The cold water diet is made with lesser amounts of protein but contains wheat germ which is easily digested and also contains a higher level of fats.

PRIMARY FOOD

Feed a Primary food every
other day,
3 days per week.

CONTAINS STABILIZED VITAMIN C

SIZE	ITEM #	GUARANTEED ANALYSIS	
12 OZ.	MLLWGSM	Crude Protein (min.)	32%
2 LBS. 4 OZ.	MLLWGMD	Crude Fat (min.)	7%
5 LBS. 4 OZ.	MLLWGLG	Crude Fiber (max.)	5%
14 LBS. 8 OZ.	MLLWGXL	Moisture (max.)	8%
40 LBS.	MLLWGBAG	Ash (max.)	8%
		Phosphorus (max.)	1.3%
		Copper (min.)	7 mg/kg



Longevity



2 LBS. 4 OZ.

12 OZ.

5 LBS. 4 OZ.

14 LBS. 8 OZ.

MICROBE-LIFT[®]

LEGACY

FRUITS & GREENS

Made with Summer Staple Food[™]

As far as we know, Ecological Laboratories is the first fish food manufacturer to commercially produce this type of food. Variety is the spice of life. If you don't have time to cut up fruits and vegetables for your pond fish, give them this "fruits and greens" blend. We've done the cutting and blending for you.

There are apples, apricots, kiwis, mangos, papayas, peaches, pears, broccoli, cabbage, peas, red peppers, tomatoes, zucchini and spinach in this scientific blend.

SUPPLEMENTAL FOOD

Feed a Supplemental food
every other day,
4 days per week.

CONTAINS STABILIZED VITAMIN C

SIZE	ITEM #	GUARANTEED ANALYSIS	
10 OZ.	MLLFGSM	Crude Protein (min.)	36%
2 LBS.	MLLFGMD	Crude Fat (min.)	6%
4 LBS. 8 OZ.	MLLFGLG	Crude Fiber (max.)	5%
13 LBS. 4 OZ.	MLLFGXL	Moisture (max.)	8%
40 LBS.	MLLFBAG	Ash (max.)	8%
		Phosphorus (max.)	1.3%



菜食主義者
Vegetarian



2 LBS.

10 OZ.

4 LBS. 8 OZ.

13 LBS. 4 OZ.

Contains

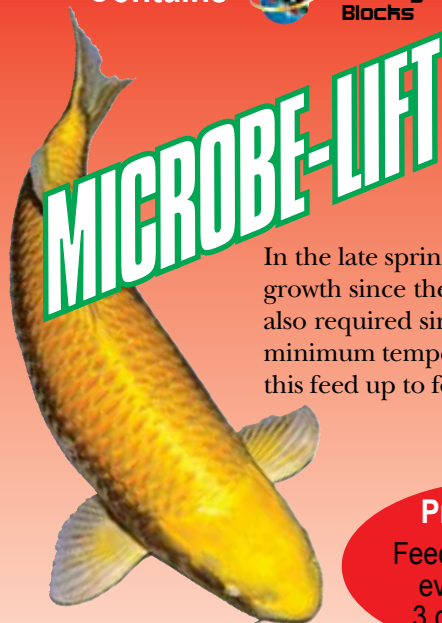
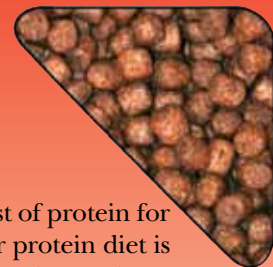


A Source of Live (Viable) Naturally Occurring Microorganisms

LEGACY

GROWTH & ENERGY FOOD

with Added Color Enhancers



In the late spring when the warmer temperatures arrive, koi and goldfish need a boost of protein for growth since they have depleted their fat reserves over the winter. In the fall a higher protein diet is also required since pond fish need to bulk up in preparation for their winter fast. Use this feed at a minimum temperature of 66° F (19° C). Pond fish really start to grow at this temperature. You can use this feed up to four times per day. Feed between 2% - 3% of the fishes' body weight per day.

生命力
Vitality

Primary Food

Feed a Primary food every other day, 3 days per week.

SIZE	ITEM #	GUARANTEED ANALYSIS	
12 OZ.	MLLHGESM	Crude Protein (min.)	40%
2 LBS. 4 OZ.	MLLHGEMD	Crude Fat (min.)	7%
5 LBS. 4 OZ.	MLLHGELG	Crude Fiber (max.)	4%
14 LBS. 8 OZ.	MLLHGEXL	Moisture (max.)	8%
		Ash (max.)	8%
		Phosphorus (max.)	1.3%
40 LBS.	MLLHGEBAG	Copper (min.)	7 mg/kg

CONTAINS STABILIZED VITAMIN C



Will Not Cloud the Water

2 LBS. 4 OZ.

12 OZ.

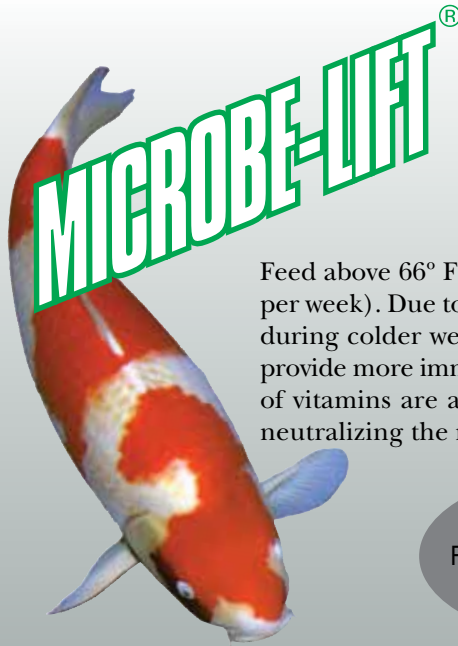
5 LBS. 4 OZ.

14 LBS. 8 OZ.

LEGACY

Summer Staple Food™

WITH MONTMORILLONITE CLAY (IMMUNOSTIMULANT)



Feed above 66° F (19° C). Alternate feeding the two supplemental foods every other day (four days per week). Due to their lower protein content they can be alternated with the Cold Weather formula during colder weather as well. The Montmorillonite Clay provides additional minerals which help provide more immunity against viruses commonly found in pond environments. Additional quantities of vitamins are also blended into this food. Montmorillonite Clay also acts as a toxin binder by neutralizing the metabolic toxins.

SUPPLEMENTAL FOOD

Feed a Supplemental food every other day, 4 days per week.

SIZE	ITEM #	GUARANTEED ANALYSIS	
10 OZ.	MLLISM	Crude Protein (min.)	36%
1 LB. 12 OZ.	MLLIMD	Crude Fat (min.)	6%
4 LBS. 8 OZ.	MLLILG	Crude Fiber (max.)	5%
		Moisture (max.)	8%
		Ash (max.)	9%
13 LBS.	MLLIXL	Phosphorus (min.)	1.3%
40 LBS.	MLLIBAG	Copper (min.)	7 mg/kg

CONTAINS STABILIZED VITAMIN C

回復力
Resilience



Will Not Cloud the Water

1 LB. 12 OZ.

10 OZ.

4 LBS. 8 OZ.

13 LBS.

45

Contains



A Source of Live (Viable) Naturally Occurring Microorganisms

MICROBE-LIFT



LEGACY VARIETY MIX

Floating Pellets and Sticks

MICROBE-LIFT Variety Mix is the answer for how to feed a blend of fruits, greens, carbohydrates, protein, wheat germ, and vitamins to your koi and pond fish. Contains 25% of each of our most popular Legacy foods: Summer Staple, Fruits and Greens, Summer Staple with Montmorillonite Clay, and Growth and Energy.

PRIMARY FOOD

Feed a Primary food every other day,
3 days per week.

CONTAINS STABILIZED VITAMIN C

SIZE	ITEM #	GUARANTEED ANALYSIS	
11 OZ.	MLLVMSM	Crude Protein (min.)	37%
2 LBS. 4 OZ.	MLLVMD	Crude Fat (min.)	6.25%
		Crude Fiber (max.)	4.5%
5 LBS.	MLLVMLG	Moisture (max.)	8.5%
14 LBS. 8 OZ.	MLLVMXL	Ash (max.)	8%
		Phosphorus (min.)	1.3%
40 LBS.	MLLVMBAG	Copper (min.)	7 mg/kg



優秀
Excellence



MICROBE-LIFT

LEGACY

SINKING FOOD

Summer Staple Food™

Sinking (transitional) food may be used when adding new fish to the pond. Generally new fish are shy until they become more familiar with their surroundings and new neighbors. MICROBE-LIFT/Sinking Food Pellets are a great way to make sure your fish receive balanced meals while adjusting to their new surroundings. Additionally, sick fish don't come to the pond's surface and feed off the bottom of the pond.



PRIMARY FOOD

Feed a Primary food every other day,
3 days per week.

CONTAINS STABILIZED VITAMIN C

SIZE	ITEM #	GUARANTEED ANALYSIS	
14 OZ.	MLLSPSM	Crude Protein (min.)	36%
3 LBS.	MLLSPMD	Crude Fat (min.)	6%
		Crude Fiber (max.)	5%
5 LBS. 12 OZ.	MLLSPLG	Moisture (max.)	8%
18 LBS. 8 OZ.	MLLSPXL	Ash (max.)	9%
		Phosphorus (max.)	1.3%
40 LBS.	MLLSPBAG	Copper (min.)	7 mg/kg



Contains



with
Nature's
Building
Blocks®

A Source of Live (Viable) Naturally Occurring Microorganisms

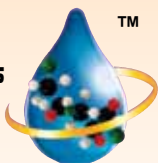
MICROBE-LIFT®

LEGACY Mini Pellets

When your little fish deserve the very best!

The stabilized Vitamin C in these mini pellets help to promote proper tissue development.

with
Nature's
Building
Blocks



優秀
Excellence

SIZE	ITEM #	GUARANTEED ANALYSIS	
6 OZ.	MLLMPXS	Crude Protein (min.)	36%
12 OZ.	MLLMPSM	Crude Fat (min.)	5%
2 LBS. 4 OZ.	MLLMPMD	Crude Fiber (max.)	4.5%
6 LBS.	MLLMP LG	Moisture (max.)	8%
17 LBS.	MLLMPXL	Ash (max.)	8%
40 LBS.	MLLMPBAG	Phosphorus (min.)	1%
		Copper (min.)	7 mg/kg



LEGACY BIG BITES

Floating Pellets

with Added Color Enhancers

Summer Staple floating pellets in a larger pellet size (0.7-1.1 cm) for feeding your larger Koi has the animal protein and color enhancers that are needed during this season. The added color enhancers are made up of astaxanthin (crab shell), spirulina and krill, which all promote brilliant color development.

Will Not
Cloud the
Water

SIZE	ITEM #	GUARANTEED ANALYSIS	
2 LBS. 12 OZ.	MLLBMD	Crude Protein (min.)	36%
6 LBS.	MLLBBLG	Crude Fat (min.)	6%
16 LBS. 12 OZ.	MLLBBXL	Crude Fiber (max.)	5%
40 LBS.	MLLBBBAG	Moisture (max.)	8%
		Ash (max.)	9%
		Phosphorus (min.)	1.3%
		Copper (min.)	7 mg/kg



MICROBE-LIFT® Birdbath/Fountain and Statuary



BIRD BATH CLEAR

Uses 2 unique proprietary technologies. One prevents the buildup of stains and mineral deposits, the other uses bio-enzymatic activity to keep the water clear and free of organic debris.

Specially formulated for birdbaths inhabited by Birds, Small Fish, Frogs, etc.

SIZE	ITEM #	TREATS	APPLICATION RATE
4 OZ.	10BBC4	17 TREATMENTS	NEW/CLEAN BIRDBATH Pour 1 capful per week into water. DIRTY BIRDBATHS Clean the birdbath with ML/BIRDBATH & STATUARY CLEANER - a natural, 100% biodegradable, soy-based cleaner that works symbiotically with Birdbath Clear. Pour one capful per week directly into the water.



Comes with FREE tabletop display



COMBO PACK!

Contains:

12 pcs. 10BBC4 and
12 pcs. 10TTFC4

Comes with FREE
tabletop display

Item # 10BBTTX24



SMALL FOUNTAIN CLEAR

Uses 2 unique proprietary technologies. One prevents the buildup of stains and mineral deposits; the other uses bio-enzymatic activity to keep the water clear, and filters and pumps free of organic debris.

Specially formulated for smaller fountains.

All natural ingredients safe for birds, fish, aquatic wildlife, humans, pets, aquatic plants, and lawns.

SIZE	ITEM #	TREATS	APPLICATION RATE
4 OZ.	10TTFC4	UP TO 34 TREATMENTS	CLEAN FOUNTAIN Small fountains under 1 gallon capacity: pour 1/2 capful per week directly into the water. For every 5 gallons, add one capful weekly. DIRTY FOUNTAIN Clean the fountain with ML/BIRDBATH & STATUARY CLEANER , then follow directions above.



Comes with
FREE tabletop display



LARGE FOUNTAIN CLEAR

Uses 2 unique proprietary technologies. One prevents the buildup of stains and mineral deposits, the other uses bio-enzymatic activity to keep the water clear, and filters and pumps free of organic debris.

Specially formulated for larger water fountains & for indoor/outdoor waterfalls.

All natural ingredients safe for birds, fish, aquatic wildlife, humans, pets, aquatic plants, and lawns.

SIZE	ITEM #	TREATS	APPLICATION RATE
16 OZ.	10LFC16	SEE LABEL	CLEAN FOUNTAIN Pour 1 capful per week directly into the water for each 100 gallons of water. DIRTY FOUNTAIN Clean the fountain with ML/BIRDBATH & STATUARY CLEANER , then follow directions above.



Comes with
FREE tabletop display

MICROBE-LIFT® Birdbath/Fountain and Statuary

NEW!



ALGAWAY 5.4 FOR FOUNTAINS

Chemical algaecide for fountains containing live fish and plants

EPA Registered

SIZE	ITEM #	TREATS	APPLICATION RATE	
			Vol. of Water	Unit of Measure
1 OZ.	ALGAF01	355 GALS.	10 gal/37.85 L	6 drops
2 OZ.	ALGAF02	710 GALS.	30 gal/114 L	18 drops
4 OZ.	ALGAF04	1,419 GALS.	50 gal/189 L	30 drops

BMC BIRDBATH MOSQUITO CONTROL

Biological larvicide for bird baths

Up to 14 days activity depending on application site

Disperses easily in water

Can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.



BMC BIRDBATH MOSQUITO CONTROL DISPLAY



SIZE	ITEM #	TREATS	APPLICATION RATE
1/2 OZ.	BMC.5	1 bottle treats 3 average birdbaths (of 1-1/2 gal) weekly for up to 2 years.	Use 1 drop per birdbath per week. The average birdbath is 3" deep by 12" round and contains 1.5 gallons of water.

SIZE	ITEM #	CONTAINS:
1/2 OZ.	BMCBBA	12 pcs. BMC.5 FREE Tabletop Display

SOY-BASED BIRDBATH AND STATUARY CLEANER

- A special blend of soy-based chemistry cleans birdbaths, garden statues, sculptures, stone, brick and pumps.
- Uses renewable soybean resources
- Powerful and safe removal of organic debris and mineral deposits
- Environmentally friendly. Not harmful to fish or other aquatic life.
- Safe for use around plants and grass



SIZE	ITEM #
8 OZ.	10SBSC8
32 OZ.	10SBSC

SOY-BASED BIRDHOUSE AND BIRDFEEDER CLEANER

- A proprietary blend of soy-based chemistry cleans all plastic, vinyl, fiberglass & metal birdhouses and resin/poly birdfeeder surfaces
- Uses renewable soybean resources
- Powerful and safe removal of organic debris and mineral deposits
- Environmentally friendly. Safe for use around plants and home



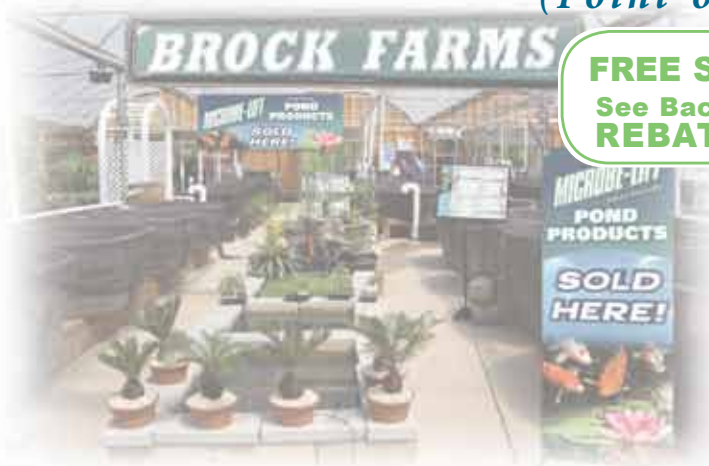
SIZE	ITEM #
8 OZ.	10SBBC8
32 OZ.	SBBC32



P.O.P.

MICROBE-LIFT®

Dealer Partnership Program
(Point-of-Purchase)



FREE SHIPPING!
See Back Cover for
REBATE Details!



CREATING COMMITTED DEALER PARTNERSHIPS

We now present our DEALER PARTNERSHIP (POP) PROGRAM

Purchases from our MICROBE-LIFT product line may apply towards a 3% Advertising/POP credit redeemable not only for print ads but for store POP as well. There is NO dollar minimum for you to qualify! Here's how:

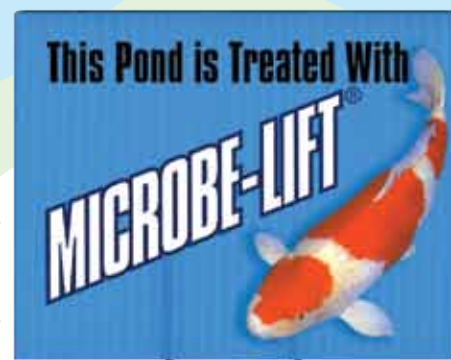
1. Place an order from our Dealer Partnership POP Program Catalog.
2. Supply copies of your distributor invoices with all MICROBE-LIFT purchases from the past year highlighted.
3. Up to 3% of your previous year's total purchases can be credited to your POP order.
4. Mail your invoices to:
Ecological Laboratories, Inc.
Dealer Partnership POP Program
P. O. Box 184, Malverne, NY 11565

Our CONSUMER AWARENESS PROGRAMS include:

- The largest consumer advertising program for water quality products.
- Participation in National Consumer Pond and Koi Shows with free product samples for attendees.
Visit our website for our annual show calendar!
- A web-based nationwide retail dealer directory — *sign up now!*
- Free seasonal Magazine *The ML/Watergardener*. *Call for qualifications to participate!*
- Consumer discount coupons.

MICROBE-LIFT SIGN MARKER & STAKE

Demonstrate first-hand to consumers the *MICROBE-LIFT Miracle* using MICROBE-LIFT products in *your* nursery ponds. Then clearly mark them with this tough, durable, 9-gauge galvanized steel ML/Marker Stake with a preprinted poly-propylene card indicating that MICROBE-LIFT is keeping the water clean and clear! (Indoor/outdoor)



#POPSTEPSTAKE

CONSUMER SUPPORT

At Ecological Laboratories, we truly value the importance of maintaining a close relationship with the consumer - *your customer* - since they are the end-user and ultimate continued growth of the MICROBE-LIFT family of products. To further assist and support them, we now proudly offers a **Monthly Email Newsletter**, a **Seasonal Magazine**, **Coupons** and **Sample Koi Food Packets!**

SEASONAL MAGAZINE

Our full-color *ML/WATERGARDENER Magazine* is not only *beautiful*, but chocked full of current information your consumers won't want to be without! The articles are written by renowned professionals—well-respected in their fields! Available online in the Media section of our web site

- www.MicrobeLift.com



MONTHLY EMAIL ML/NEWSLETTER

Well written and designed, many consumer's truly appreciate and enjoy the convenience of receiving our monthly email updates!

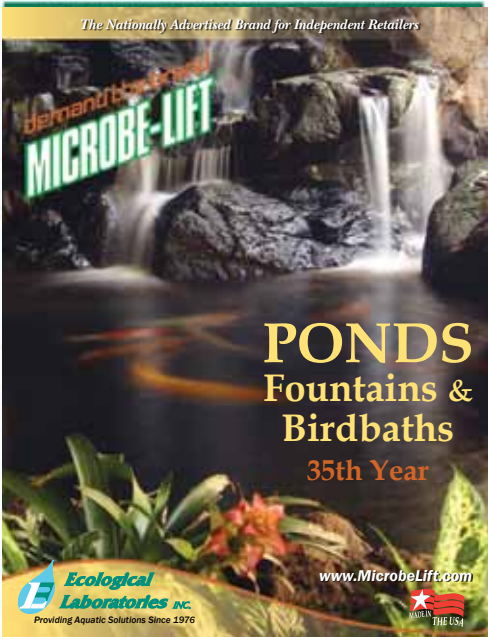


COUPONS

For more information call
800.645.2976
or visit our website
www.MicrobeLift.com

Ecological Laboratories Inc. offers its dealers a large variety of marketing support and point-of-purchase materials, featured on the following pages to help promote, display, distinguish and, ultimately, sell our growing family of products. We also want to help educate both our dealers and our customers as to the incredible, all-natural benefits of the MICROBE-LIFT brand.

#POPLITCATP



2011 PONDS FOUNTAINS & BIRDBATHS CATALOG

Our 2011 product line is featured in this full-color 60-page catalog, containing explicit product descriptions, dosage rates and other important information.

CATALOGS & CATALOG HOLDERS

We offer several clear, plastic catalog holders in sizes to fit our catalogs, sell sheets, magazine and/or guides.



#POPHOLD8.5
Fits up to 8.5" width
See back cover for magazine info!



#POPHOLD4.25
Fits up to 4.25" width



#POPHOLD5.5
Fits up to 5.5" width



#POPFAQ



#POPLITKQIQA

FAQs and Q&A BROCHURES

Real consumer questions are addressed in these three informative brochures! Our new FAQ BROCHURE is chocked full of answers to Frequently Asked Questions we receive. Mark J. Krupka, Ecological's VP & Technical Director, and Carolyn Weise, Consumer Relations Manager, answer questions Q&A style, in two digest-sized brochures, featuring full-color product photographs with descriptions.

#POPLITUSAGE



PRODUCT USAGE GUIDE

As our product line has grown, so has the need for this invaluable resource to help BOTH dealers and consumers easily understand which MICROBE-LIFT products to use, when to use them, what each product does, as well as additional product information. The Guide also includes a helpful tip section all pond owners will find useful.

DIGITAL IMAGERY CDs & DVDs

• As a service to our dealers, we offer a digital image library of the complete MICROBE-LIFT product line, conveniently available upon request in a DVD, 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.

#POPDVDART
1 DVD

- Also available upon request: PRICE LISTS for our full product line—including UPC codes and case pack quantities supplied in Excel.

#POPDVDLAND
Professional



#POPDVDCON
Consumer



#POPDVDEAL
Dealer



CONSUMER, DEALER & LANDSCAPER DVDs

Mark J. Krupka, Ecological Laboratories' VP & Technical Director, narrates these informative DVDs. LANDSCAPE, IRRIGATION & POND PROFESSIONALS features our professional pond product line, which also corresponds with our catalog of the same name. Our POND PRODUCT DVDs (featuring consumer products) come in two versions: one to educate Consumers (great for in-store play); the other for Dealers to use to train personnel.

SELL SHEETS



Promotional sell sheets containing individual product descriptions and dosage information are available, as well as self-standing, clear plastic frames to conveniently display these sheets on your counter.

CLEARVIEW COUNTER FRAMES



#POPHOLDSSELL

Sludge Away
#POPLITSA

Barley Straw Pellets
#POPLITBP

ML/PL
#POPLITPL

Autumn/Winter Prep
#POPLITAWP

Spring/Summer Cleaner
#POPLITSSC

TheraP
#POPLITTHR

VINYL OUTDOOR FISH FOOD BANNERS W/GROMMETS



#POPBANFF
22" x 24" Banner

PLASTIC 4-SHELF FISH FOOD DISPLAY RACK

FREE with qualifying fish food order.
(See price list for details).



#POPRACKFFPL

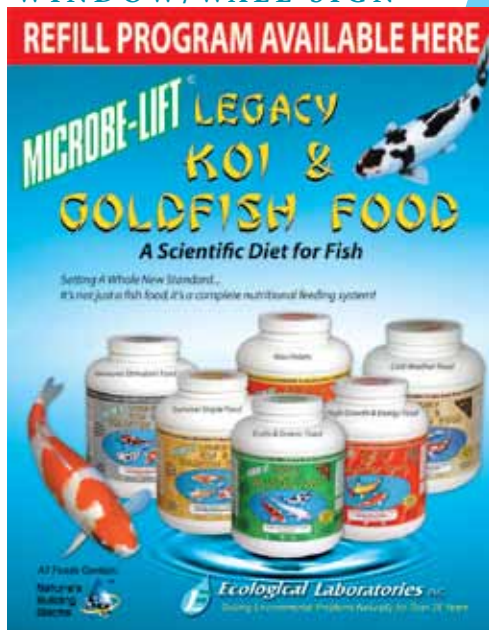


#POPRACKFFWD

WOODEN DISPLAY FOR LEGACY FISH FOOD w/Front & 2-Sided Full-Color Signage

FREE with qualifying fish food order.
(See price list for details).

IN-STORE FISH FOOD REFILL PROGRAM PAPER WINDOW/WALL SIGN



#POPSGNFFRF

START AN IN-STORE REFILL PROGRAM!

Advertise with in-store posters, sample fish food packet hand-outs and easy-to-use food dispensers for cost-effectiveness and the eco-conscious consumer!

FISH FOOD DISPENSER

#POPFOODDISP

- 12 gallon capacity
- Easily installs in an existing display or any flat surface
- All polycarbonate
- Easy to clean
- No cracking, yellowing or hazing
- Bin always appears full with separate front-filled section
- No spill spout
- Self closing handle
- Gravity feed
- 2-year manufacturer warranty
- Sold individually



FREE

DISPLAYS & FREIGHT PLUS DISCOUNTS*

Ecological Laboratories, Inc. offers its dealers both stationary and rolling merchandiser racks with color banners to display our products.

* All displays are sold as net priced items. A 10% discount is included in the price. No further discounts apply! Please see current price list.

BARLEY STRAW CONCENTRATED EXTRACT & PELLETS DISPLAY RACK

**FREE Display w/Wheels &
Color Vinyl Banner**

CONTAINS 2 PRODUCTS:

Barley Straw Concentrated Extract

24 pcs./8 oz. bottles • 12 pcs./16 oz. bottles • 12 pcs./32 oz. bottles

Barley Straw Pellets+

12 pcs./2.2 lb. bags • 12 pcs./4.4 lb. bags • 6 pcs./10.5 lb. bags



#BXPDR

Also Available:
2 Additional Racks Not Shown

#BPDR

BARLEY STRAW PELLETS+ DISPLAY RACK

CONTAINS ONLY:

Barley Straw Pellets+

24 pcs. / 2.2 lb. bags • 36 pcs. / 4.4 lb. bags

12 pcs. / 10.5 lb. bags

#BSVDR

BARLEY STRAW VARIETY DISPLAY RACK

CONTAINS 3 PRODUCTS:

Barley Straw Concentrated Extract + PEAT

12 pcs. / 8 oz. bottles • 6 pcs. / 16 oz. bottles • 6 pcs. / 32 oz. bottles

Barley Straw Concentrated Extract

12 pcs. / 8 oz. bottles • 6 pcs. / 16 oz. bottles • 6 pcs. / 32 oz. bottles

Barley Straw Pellets+

12 pcs. / 2.2 lb. bags • 12 pcs. / 4.4 lb. bags • 6 pcs. / 10.5 lb. bags

FREE CARDBOARD FLOOR DISPLAY

(UPON REQUEST)

with 36 pcs. of any
combination of

PL, Spring Summer Cleaner,
TheraP, Autumn Winter Prep

#POPDISPL



BIRDBATH & FOUNTAIN PRODUCT DISPLAY RACK

**FREE Display (Not on Wheels)
& Full-Color Header Card**

#WCDR



CONTAINS:

Small Fountain Clear

24 pcs. / 4 oz. bottles

BirdBath Clear

24 pcs. / 4 oz. bottles

Large Fountain Clear

12 pcs. / 16 oz. bottles

Birdhouse & Birdfeeder Cleaner

6 pcs. / 32 oz. bottles

BirdBath & Statuary Cleaner

6 pcs. / 32 oz. bottles

OUR MOST POPULAR RACK!



Front & Side View

Our POP Helps to Increase Sales!

FREE Freight! FREE Display! Quantity DISCOUNTS!

#MPM

POND PRODUCT DISPLAY #1 4-SHELF ROLLING MERCHANDISER

FREE Display Includes a 4-Color Vinyl Banner Shipped on a Mini Pallet

CONTAINS:

ML/PL

24 pcs. / 16 oz.
36 pcs. / 32 oz.
4 pcs. / gallons

TheraP

6 pcs. / 32 oz.
1 gallon

Ensure

6 pcs. / 32 oz.
1 gallon

Spring/Summer Cleaner

12 pcs. / 1 lb. units

Autumn/Winter Prep

12 pcs. / 32 oz.

ML/HC

4 pcs. / gallons

#NP04DR

POND PRODUCT DISPLAY #2

FREE Display Includes a 4-Color Vinyl Header Shipped on a Mini Pallet

CONTAINS:

Calcium Montmorillonite Clay

12 pcs. / 2 lb. containers
12 pcs. / 4 lb. containers
6 pcs. / 6 lb. containers

TAC

12 pcs. / 8 oz. containers
12 pcs. / 16 oz. containers
6 pcs. / 3 lb. containers
4 pcs. / 5 lb. containers

Sludge Away

12 pcs. / 32 oz. bottles
4 pcs./gallons

Concentrated Aquatic Planting Media

6 pcs. / 10 lb. bags
3 pcs. / 20 lb. bags



#MCM

BIOLOGICAL MOSQUITO CONTROL DISPLAY RACK

FREE Display with a Full-Color Header Card (Not on Wheels)

CONTAINS:

BMC BirdBath

24 pcs. / .5 oz. bottles

BMC Small Pond

24 pcs. / 2 oz. bottles

BMC Medium Pond

12 pcs. / 6 oz. bottles

BMC Large Pond

12 pcs. / 12 oz. bottles

BMC Extra Large Pond

12 pcs. / 16 oz. bottles



IN-STORE SIGNAGE

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

FLEXIBLE STAND WITH BANNERS

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



4 ft. x 18 in. HEADER CARDS for Gondolas or Wall Mounting

Adhere w/double face tape. (Tape and gondola NOT included!)

#POPHEADFF

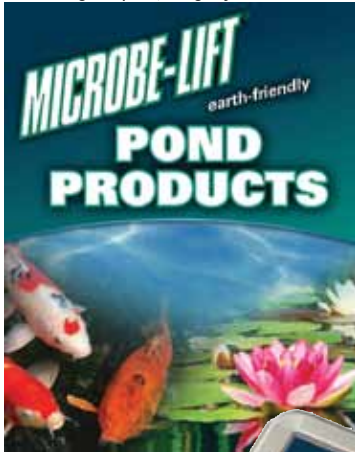


#POPHEADPOND



INTERCHANGEABLE 16" X 20" BACK-LIT FILMS for Lightbox Displays

These high-impact, brightly illuminated back-lit film displays get noticed in our mounted or free-standing lightboxes. Purchase one or all five and change seasonally!



#POPFILMPOND



#POPFILMSPG



#POPFILMSUM



#POPFILMFALL



ULTRA THIN SNAP FRAME & BASE

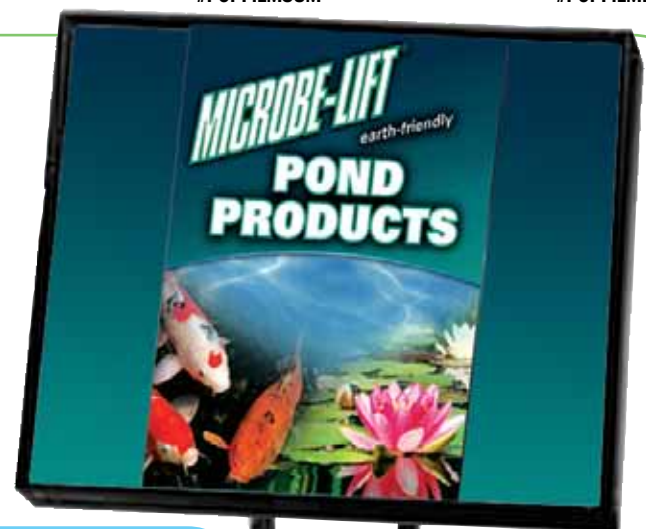
Exciting and modern, this sleek, curved base is paired with a versatile, ultra thin, 16" x 20" silver Snap-Frame lightbox, making film changes a snap! The lightbox easily screws onto its heavy-duty, weighted base in a **VERTICAL position only!**

Predrilled recessed D-hooks on the 3" profile Snap-Frame lightbox also make it convenient for **vertical or horizontal** wall hanging!

Snap Frame Only:
#POPLTEBXTHIN



Pedestal Stand:
#POPSTANDTHIN



Screw Frame Only:
#POPLTEBXBLK

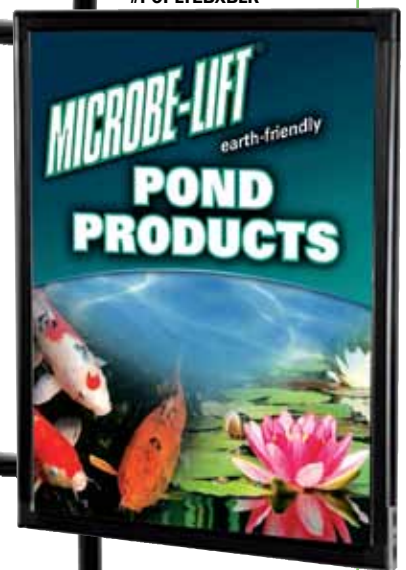
LIGHT BOXES & BACK LIT FILMS

New, Fresh and Modern! Ecological Laboratories Inc. brightens your sales with these striking light boxes and beautiful, full-color light films. Thin and efficient on space, they can be used two ways: free-standing, mounted upright on their matching stands or hung on a wall.

Easily change their films and mountings to freshen your look as frequently as you want!

BLACK FRAME LIGHT BOX & BASE

Make a bold statement with our 16" x 20" thin, black lightbox and pedestal base. Slightly thicker than the Ultra-Thin Snap Frame, this mounted lightbox easily screws into its sturdy yet lightweight 39" tilt-top, adjustable stand in a **HORIZONTAL position only.**



The light-up display frame comes with premounted D-hooks for **vertical or horizontal** wall hanging. Unscrew frame for quick, side-loading film changes!

Pedestal Stand:
#POPSTANDBLK

Visit us on the web: **www.MicrobeLift.com**

To find out more about our earth-friendly products for
**ponds, fountains, birdbaths,
lawn & garden and now aquariums!**

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

Our Web Site Features:

- Complete resource center for all MICROBE-LIFT products
- Media Section:
 - An informative DVD presentations for both dealer selling education and consumer overall education on our MICROBE-LIFT products
 - Archived MICROBE-LIFT Watergardener Magazines and our monthly e-newsletters
- Q & A Forum: View archived Question and Answers from other MICROBE-LIFT users to learn more about pond keeping

Store Support

- Catalogs: View or download all our catalogs and sell sheets. Give them out to sales staff and customers
- Trade Shows: Listing of all trade and distributor shows we are attending
- Dealer Directory: Ability for you to sign up on our FREE Online Dealer Directory, where consumers who are using our web site looking for MICROBE-LIFT dealers can find your location through a ZIP code search. Don't miss out on this FREE opportunity!
- MICROBE-LIFT Sales Reps: Fill out our form online and we will put you in touch with the MICROBE-LIFT sales rep closest to you
- Distributors: Listing of all authorized MICROBE-LIFT distributors (categorized)
- Material Safety Data Sheets: Download or view our products MSDS

Customer Support

- FAQs: View our Frequently Asked Questions
- Pondkeeping 101: Learn everything you or your customers need to know about caring for your pond
- What Product Should I Use: An Interactive web page that simplifies the maintenance of ponds and water gardens
- Ask the Experts: You or any of your customers can ask our resident pond expert, Carolyn Weise any of your pond keeping questions
- Consumer Shows: Listing of all koi shows at which Ecological Laboratories will be exhibiting



Manufactured by:

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FACTORY & DISTRIBUTION

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FAX: +65 64013048

MIDDLE EAST OFFICE (JORDAN & DUBAI)

MENA OFFICE
Nahhas World Business Center
P.O.Box 1116 Amman 11118, Jordan
Tel: 00962-6-5682137
Fax: 00962-6-5665352
Email: mohamad.n@econahhas.com
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EXCLUSIVE EUROPEAN DISTRIBUTOR:

SIBO BV, The Netherlands
Tel: +31 (0)413-293918
Email: sales@sibo.nl

ADDITIONAL UNITED KINGDOM DISTRIBUTOR:

Great Britain, Ireland & Scotland
J & K Aquatics, Ltd.
Email: info@jnk-aquatics.co.uk

EXCLUSIVE AUSTRALIA DISTRIBUTOR:

AVK Imports Australia
Email: avk@bigpond.net.au

EXCLUSIVE ISRAEL DISTRIBUTOR:

Global Pets
Email: g-pets@actcom.co.il

