MICROBE-LIFT®

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Step by Step

Instructions to Set Up Your New Aquarium

For a natural, clean, clear, non-toxic aquarium environment!

Your New Aquarium

Congratulations on your new Aquarium! Having an aquarium can provide lifelong enjoyment for you and your family. With your aquarium comes some responsibility, and there are a few things you need to know about aquarium maintenance and care to protect your new pets.

Getting started is easy with MICROBE-LIFT Aquarium Cycling & Water Conditioning Kit

Rinse and fill the aquarium with fresh tap water. Let the water stand for a few hours until it reaches room temperature, then follow these 3 simple steps:

Step 1: Add **MICROBE-LIFT/Aquatic Stress Relief** (as per directions on product label) to condition the water and eliminate toxic chlorine, chloramines, and heavy metals that can be found in tap water. These compounds are very toxic to all aquarium life, so be sure to add **MICROBE-LIFT/Aquatic Stress Relief** every time you add water to your aquarium. Start Step 2 & Step 3 immediately after adding fish & food.

Step 2: Add **MICROBE-LIFT/Special Blend** (as per directions on product label) to quickly establish the necessary waste-degrading microorganisms that your aquarium needs. **MICROBE-LIFT/Special Blend** is designed to keep your aquarium free of waste matter such as fish waste and uneaten fish food. It also removes toxic nitrate. You can always count on **MICROBE-LIFT/Special Blend** as the best product to help keep your aquarium clean and non-toxic.

Step 3: Add **MICROBE-LIFT/Nite-Out II** (as per directions on product label) to provide the nitrifying microorganisms essential to all aquariums and starts the ammonia removal process quickly. **MICROBE-LIFT/Nite-Out II** biologically oxidizes ammonia by converting it to nitrite, then nitrate. This is very important, as ammonia is very toxic to all aquatic life, and can best be controlled by the natural biological process of nitrification.

The Nitrogen Cycle

There is an essential process in aquarium care called the Nitrogen Cycle. While the Nitrogen Cycle (Nitrification Process) is quite technical, it is not hard to understand.

The aquarium relies on microorganisms to break down waste matter that can build up in the aquarium. These microorganisms must have the ability to recycle the waste matter to provide a clean, non-toxic environment for aquarium life. **MICROBE-LIFT/Special Blend** and **MICROBE-LIFT/Nite-Out II** provide the natural biological process to start your aquarium on the very first day, establishing the Nitrogen Cycle, so your aquarium is ready fast! Now you can add your fish, and other aquatic life safely to the aquarium.

The addition of the products in the **MICROBE-LIFT**/Aquarium Cycling & Water Conditioning Kit is important because, when first starting an aquarium without the use of **MICROBE-LIFT/Special Blend** and **MICROBE-LIFT/Nite-Out II**, it can take from 5 to 6 weeks to develop the two essential bacteria groups that keep aquariums clean and non-toxic.

The **MICROBE-LIFT/Special Blend** and **MICROBE-LIFT/Nite-Out II**, found in the **MICROBE-LIFT/Aquarium Cycling & Water Conditioning Kit**, are used together to provide the necessary aquarium microbiology to cycle your aquarium on the very first day*. When used together, they maintain a clean, safe, non-toxic environment for your aquarium life, while significantly reducing maintenance and water changes.

Additional Things to know

1) Do not overfeed fish.
2) Do not overpopulate your aquarium. You should have no more than 1" of fish per gallon of water in your aquarium.
3) Maintain a proper water level.
4) When adding water, always add **MICROBE-LIFT/Aquatic Stress Relief**.
5) Conduct partial water changes as required, based on water quality.
6) Continue to use **MICROBE-LIFT/Special Blend** and **MICROBE-LIFT/Nite-Out II** in accordance with their respective instructions. **MICROBE-LIFT/Special Blend** has a hydrogen sulfide odor which will dissipate quickly.

Aquarium care is as simple as assuring the water is free of toxins and waste matter. It's important to understand that the aquatic life (fish) in your aquarium requires a safe, clean place to live. Like any other pet, they require some level of daily attention.

Getting started is easy:

Aquariums are environments consisting of water, so they are different from how we live. However, there are certain aspects that are similar. Your aquarium requires someone to take care of its unique world on a regular basis. You have to: check it; clean it; fill it; feed it; and make sure its world is clean, non-toxic, and safe for its inhabitants.

** Cycling studies performed by a third party laboratory. Data available upon request.*

0809 Tech. Sht. #9, pg. 1

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Fish

Sources of Ammonia

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

step #1: add
MICROBE-LIFT/Special Blend
Speeds the removal of all organic waste matter in aquariums by adding a select group of microbes that increase the rate of organic breakdown and improve filter performance.

step #2: add
MICROBE-LIFT/Nite-Out II
Provides the necessary nitrifying bacteria (*Nitrosomonas sp.*, *Nitrobacter sp.*, and *Nitrospira sp.*) required for the biological nitrification process, and assures the continued removal of toxic ammonia.

Nitrosomonas sp.

(contained in MICROBE-LIFT/Nite-Out II)
Converts ammonia to

Nitrite (NO_2^-)

Nitrobacter sp. & *Nitrospira sp.*

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

Nitrate (NO_3^-)

A nutrient source for plants and algae

Denitrification

The reduction of nitrate in filtered aquarium anoxic zones

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

Nitrogen Gas (N_2)

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

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