

# HYDRA BIO SHOCK



Bio Treatment For Balancing Ponds & Lakes



HYDRA®

## Features & Advantages

Hydra Bio-Shock contains a powerful blend of enzymes and natural bacteria that breakdown waste contamination from balancing ponds and lakes including: FOG's (fats, oils and grease), organic sludge and excess nutrients.

Combined with aeration Hydra Bio-Shock works quickly and effectively to reduce contamination within days.

Hydra Bio-Shock will not harm fish or invertebrates and is safe to enter water courses. downstream.

It does not contain harsh chemicals to damage the environment. Hydra Bio-Shock is completely biological and environmentally friendly.

No expensive pump out, or environmental land fill costs that are associated with other methods of decontamination.

Easy to implement—simply broadcast over the water surface and wait to see the effects.

Results are seen quickly, typically within 3-4 days.

Hydra Bio-Shock is extremely easy to apply and can treat thousands of litres of water with no problem.

It's biological formulation means you will not be harming or damaging the environment or the many aquatic organisms and plants that no doubt inhabit the area.

## The Problem



Balancing ponds and lakes can easily become contaminated with:

- ◆ Fats, oils and greases.
- ◆ Raw sewage and organic waste.
- ◆ Sludge and organic matter.
- ◆ Excess nutrients that enable rapid algae growth.
- ◆ Heavy metals contamination.



If the balancing lake is polluted, the outflow can go into the water course, polluting rivers downstream with whatever contaminates that are in the water.

Large organic silt build up in these reservoirs will reduce the capacity of the lake so that it cannot hold as much water; increasing flooding in that particular area.



### Adverse effects of lake contamination include:

Toxicity resulting in dead fish, algal blooms, bad smells and unsightly appearance.

There may be worse impacts still if dangerous contaminants enter water courses.

The impact of this is wide spread. Not only does it affect the people immediately surrounding the area.

Damage to the environment can also lead to notification from the environment agency to clean up the area resulting in costly pay-outs.

## The Solution

Hydra Bio-Shock is a powerful blend of enzymes, natural bacteria and micro nutrients that rapidly remove waste contamination from balancing ponds and lakes.

When used in conjunction with an oxygen rich environment, Hydra Bio-Shock quickly works to remove contamination from the water by creating an ideal breeding ground for its natural bacteria.

The enzymes in Hydra Bio-Shock breakdown waste and contaminants such as sewage, kitchen waste and organic matter so that the bacteria can start working immediately, absorbing and removing the contamination.

As the bacteria reproduce they generate more enzymes which continue to breakdown the contamination and the cycle continues until all the contaminants have been removed.

The speed and effectiveness of the treatment is dependent on there being sufficient aeration.

An aeration system is a vital investment for the management of any large body of water.

Aeration systems supply a continuous flow of oxygen to the water.

The Bacteria in Hydra Bio-Shock thrives in an oxygen rich environment and are able to multiply extremely quickly.

This is the prevailing factor in why the product works on such a short time scale.



### **Aeration has many additional benefits including:**

- ◆ Improving the quality of life for fish & aquatic organisms that rely on plentiful supplies of oxygen.
- ◆ Prevention of stagnation and subsequent malodours emanating from the water.
- ◆ Improving water quality by boosting levels of excess harmful nutrients such as ammonia and nitrate.

Assists in the prevention of algae growth through the removal of nutrients such as phosphates and nitrites that algae uses to grow.

## How To Use



Simply broadcast the product across the area of water you want to treat as evenly as possible.

For small lakes, it may be easy to do this from the waters edge, for larger bodies of water you may want to broadcast the treatment from a rowing boat or by applying it near the entrance of a incoming stream.

The aerator in the water will ensure that the product gets adequately mixed.

#### Dilution rates

- 20g per cubic metre (1,000 litres).
- 1 kilo 50 cubic metres (50,000 litres)
- 5 kilos 250 cubic metre (250,000 litres)
- 20 kilos 1,000 cubic metres (1,000,000 litres).

## Laboratory Facilities

Hydra International Ltd.'s Research & Development Laboratories are a hub of activity where new products are developed and formulated. We have working relationships with our raw material suppliers, many of these suppliers are major world-wide chemical manufacturers with their own development laboratories.

As a company we are well known in the chemical industry for being receptive to cutting edge new chemicals which can be incorporated into our products to achieve performance advantages. An important part of the International Standards that we hold is that of constant improvement. We show that we have achieved this at every independent audit.



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