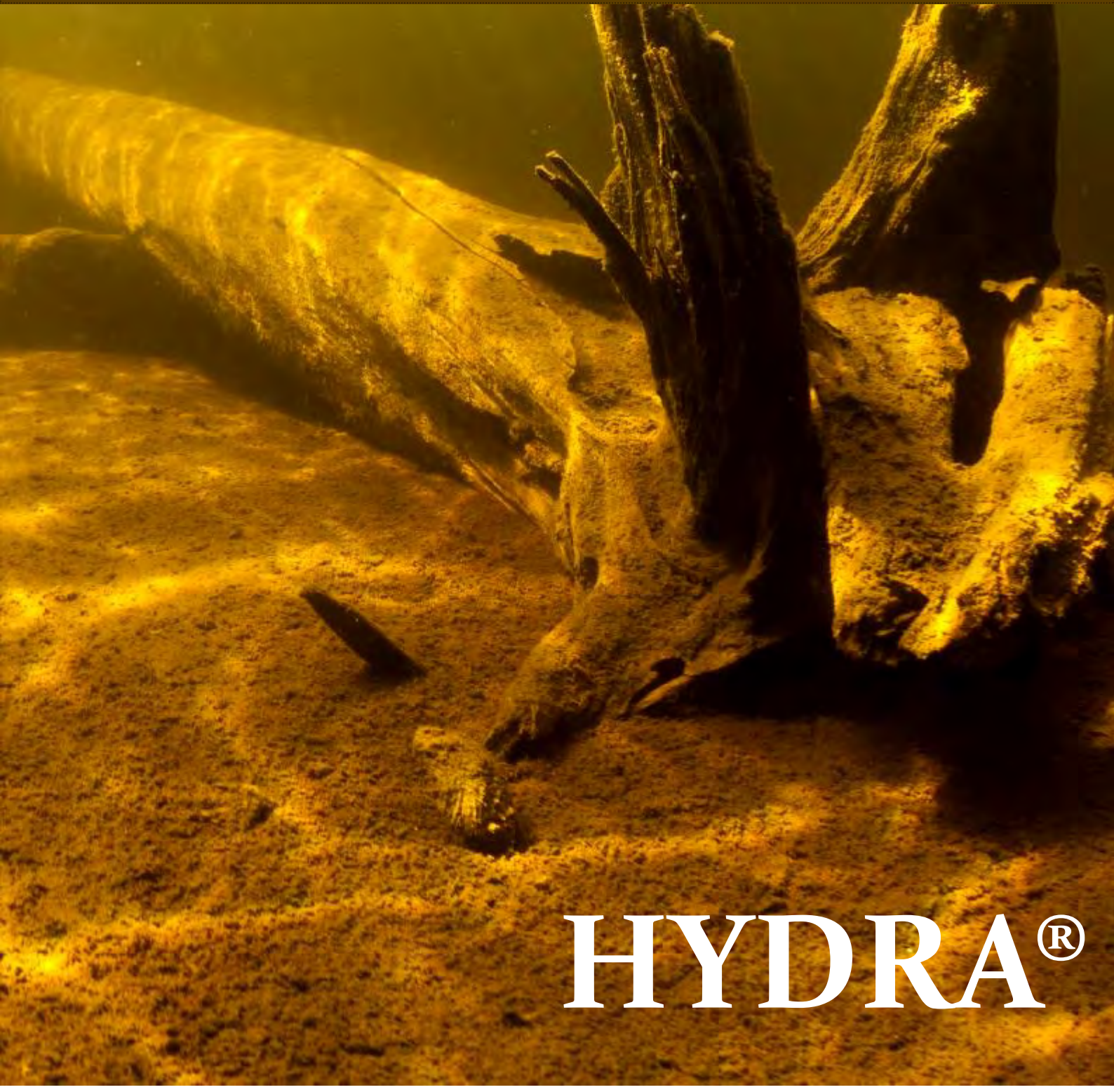


# HYDRA

# Silt-Less Base

Natural Calcium Carbonate



# HYDRA<sup>®</sup>

## Features & Advantages

- ◆ Decreases organic and oxidisable matter, which shows as a reduction in silt levels.
- ◆ Ideal for ponds and lakes with heavy fish loads.
- ◆ Improves water clarity by settling suspended solids.
- ◆ Counteracts acidity in water and silt.
- ◆ Prevents unpleasant odours.
- ◆ 100% safe.
- ◆ Digests smelly black silt and reduces methane production.
- ◆ Provides essential calcium for plants and animals.
- ◆ Increases biodiversity within water-body.
- ◆ Harmless to humans, mammals, birds, fish, invertebrates and water plants.
- ◆ Highly effective with a massive micro porous crystalline structure which vastly increases oxygenation by stimulation of aerobic micro-organisms.

## Description



The best way to remove organic silt is to provide ideal breeding conditions for natural lake bacteria to break-down this silt much as a compost heap would.

To facilitate this our laboratories have developed the Hydra Silt-Less System.

The Hydra Silt-Less System has three elements.

1. Hydra Silt-Less Base.
2. Hydra Silt-Less Bio Bacteria.
3. Aeration to Increase Oxygen Levels.



Hydra Silt-Less Base Bacteria secrete a bio-slime which enables them to stick to surfaces and each other. This bio-slime also helps to protect the bacteria from predators.

The larger the surface area that bacteria can colonise the more bacteria will be present and the quicker they will remove the organic silt.

Hydra Silt-Less Bio Bacteria is a scientifically



formulated natural mixture of micro-organisms, enzymes, trace elements that effectively stops silt build-up by biologically breaking it down. It is ideal for ponds, rivers and lakes of all sizes, even for those with heavy fish loads.

**Aeration to Increase Oxygen Levels** There are two types of bacteria found in water bodies anaerobic which do not require oxygen to reproduce and aerobic which do need oxygen.

## How To Use

### The Problem

A major contributor to the silt deposits at the lake bottom are the dead decaying leaves. Trees and plants surrounding the lake shed leaves in large numbers especially during autumn. These leaves find way inside the water bodies and settle at the bottom where they may partially decompose in absence right kind of environment. Apart from leaves, fish food, dead weeds and algae also sink to the bottom and contribute to the toxic or black mud layer at the bottom of the lake.

Using a net to cover the pond in autumn and regularly raking of leaves from the water surface helps in the slowing down the process of silt build up. However other factors, such as fish foods, dead water plants or algal blooms and blanket weed, slowly add to the and layers of silt.

Lake desilting with the help of machinery is a very time consuming, labour intensive as well as an expensive job. In addition, use of equipment to clear the lake bottom may strip out the lake of natural habitat.

Therefore, using a lake silt remover becomes an ideal option for lake management.



- ◆ 1000 kg of Hydra Silt-Less Base treats 4,000 sq. metres (1 acre).
- ◆ 500 kg of Hydra Silt-Less Base treats 2,000 sq. metres (1/2 acre).
- ◆ 250 kg of Hydra Silt-Less Base treats 1,000 sq. metres (1/4 acre).
- ◆ 25 kg of Hydra Silt-Less Base treats 100 sq. metres (1/40 acre).

Full Instructions on the label.



### The Solution

Hydra Silt-Less Base is an effective and economic method of organic silt removal. The product includes extremely porous and microscopic particles of calcium carbonate a naturally occurring mineral. These particles entrap air and provide large surface area to support the colonization of aerobic bacteria. Aerobic bacteria are a fast sludge digester and give excellent lake cleaning results.



## 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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