

HYDRA



Ammonia Lock

Aquatic Ammonia Remover



HYDRA[®]

Features & Advantages

- ◆ Quickly adsorbs toxic ammonia from the water.
- ◆ Ideal for ponds with heavy fish loads.
- ◆ Jump-starts ammonia removal after cleaning filters
- ◆ Accelerates development of biological filters at the beginning the season.
- ◆ Consists of naturally occurring high grade Zeolites with micro porous crystalline constitution, not mixed with cheap impurities.
- ◆ Improves bio-filter's effectiveness in hot summer months.
- ◆ Rechargeable for multiple uses.
- ◆ Clears cloudy water associated with bacterial blooms.
- ◆ Controls algae growth.
- ◆ Secret of Japanese pond keepers.

The Problem

As much as food is necessary to support fish life, it could also be potentially the cause of its death.

Ammonia is a product of fish metabolism released in the water as fish waste. The paradox is the more your fish eats, the more harmful ammonia it excretes and the more it exposes itself to risks of ammonia poisoning.

In confined bodies of waters, like ponds, **ammonia** problems are usually dealt with by established biological filters.

Ammonia in the water is broken down to less harmful nitrates by nitrifying bacteria.

Nitrifying bacteria grow when there is a good supply of ammonia. So stocking your new pond with fish will raise ammonia levels which will induce the growth of nitrifying bacteria.

However, even at ideal temperatures, it may take weeks for nitrifying bacteria to establish enough colonies in your new biological filter.

Meanwhile, while the population of nitrifying bacteria are still catching up, the fish are at risk to ammonia problems.



Ammonia problems may surge even in established ponds, especially when the following happen:

- ◆ Increase in fish stock to levels more than what the bio-filtration can handle.
- ◆ Ineffectively working bio-filter due to partial obstruction with waste .
- ◆ Poorly maintained ponds with big amounts of decomposing matter that raises ammonia pollutions to levels more than what the present nitrifying bacteria can handle.
- ◆ Lots of fish food left-overs, which provides a source for ammonia.
- ◆ Increase in water temperature like at the start of the season, when fish activity increase and nitrifying bacterial are still recovering in numbers from sluggish growth during the winter.



The Solution

A proven effective solution that works faster than nitrifying bacteria to immediately ease up **ammonia** problems is the use of zeolites.

Zeolites are naturally occurring minerals that rapidly takes care of ammonia removal from the water to quickly eliminate the risk it poses to fish health. These minerals work like water filters by adsorbing ammonia.

Once soaked with **ammonia**, the zeolites are taken out from the pond to be cleaned-out and recharged. The ammonia adsorbed on the zeolites is expelled by immersion in salt water solution. The **ammonia** is then released in exchange for the salt. Due to this property, zeolites are not suitable for use in salty waters.



Unlike other zeolites, **Hydra Ammonia Lock** is of the highest grade and not mixed with cheap impurities.

Hydra Ammonia Lock is a safe, fast and effective product that quickly lowers the dissolved ammonia levels in ponds, pools and all fresh water systems with fish.

How To Use

- ◆ Dosage Rate: 1 kilo treats 1,350 litres of water.
- ◆ Leave **Hydra Ammonia Lock** crystals to soak for 24 hours in a 10% salt solution to charge, this done before use in pond.
- ◆ Place the charged crystals in a sack in a running water area.
- ◆ After putting in water **Hydra Ammonia Lock** may become saturated even before the ammonia levels are reduced to zero. In this case take the crystals out and recharge as before, prior to adding back into the water.
- ◆ It is advised to use **Ammonia Test Kit** to check dissolved ammonia levels in the water.
- ◆ Recharge the crystals every month or more frequently if necessary.



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.



Hydra International Ltd
Milton Keynes MK11 3ER, UK
01908-265889
sales@hydra-int.com
www.hydra-int.com

