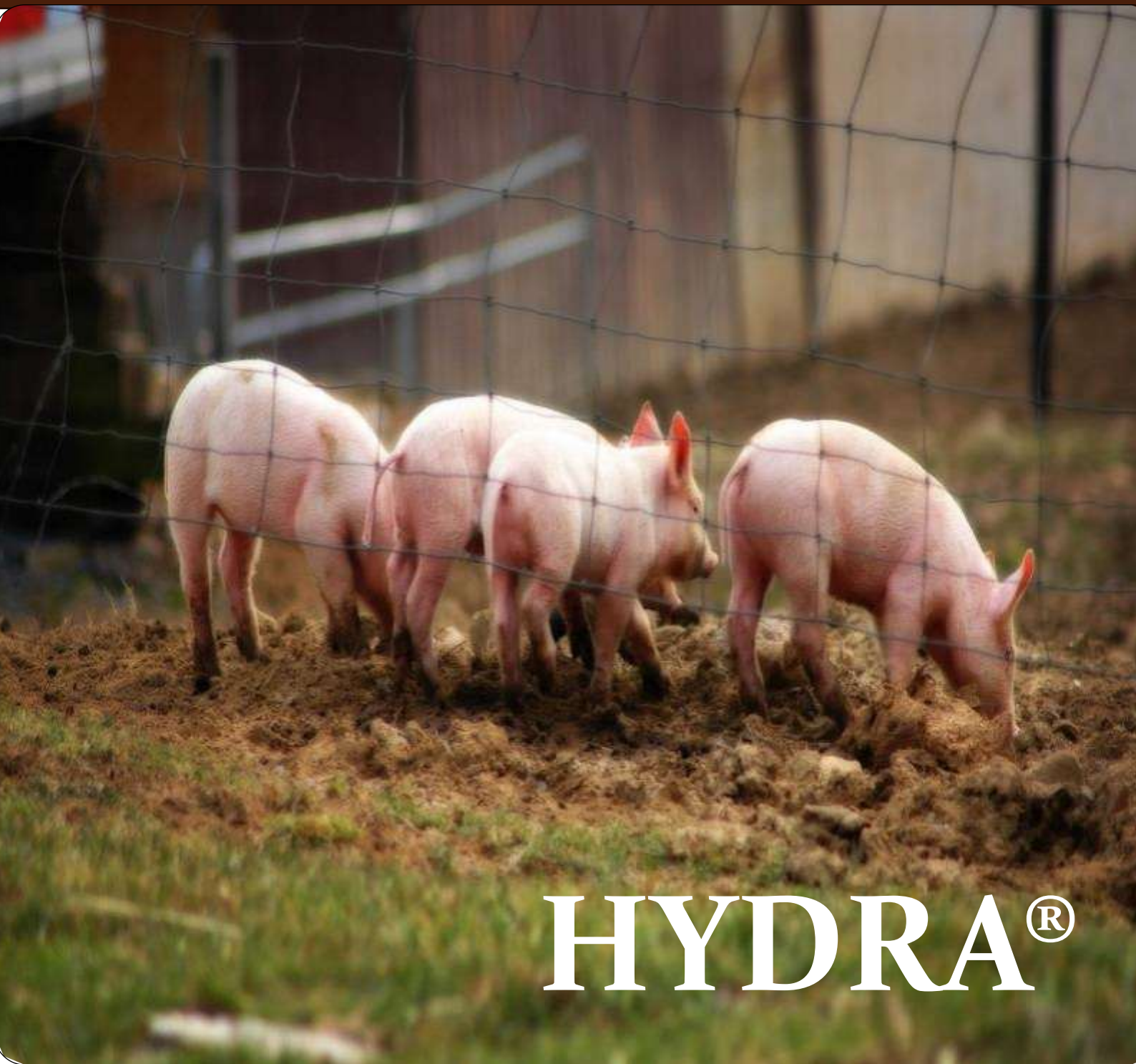


HYDRA



BIO SLUDGE BUSTER

Biological Treatment for Animal Wastes



HYDRA[®]

Features & Advantages

Bacteria/Enzyme Treatment for Farm Wastes

- ◆ Rapidly establishes the desired strains of bacteria in pits and lagoons.
- ◆ Encourages the establishment of an environment to maintain these beneficial strains
- ◆ Breaks down and recovers organic material (accelerates the natural process).
- ◆ Reduces harmful gases (ammonium levels).
- ◆ Suppression of crusts in the pits.
- ◆ Easy emptying of the pits for easy application on crops.
- ◆ Liquefies Farm Sewerage & Compacted waste for ease of pumping.
- ◆ Its biological action reduces the total nitrogen content of the waste.
- ◆ Reduces the levels of odour-causing compounds.
- ◆ Establishes the desired strains in the pits and lagoons for the most efficient biological breakdown of waste.

The Problem



Organic Material, Blockages & Blinding Screens Cause Bad Odours & Flies

Organic waste from animals is made up of proteins, carbohydrates, fatty materials and fibres, which solidify making it difficult to liquefy and reduce them.

These insoluble solids and suspensions are particularly difficult to break down.

As a result, the solid build up and cake must be liquefied outside the bacterial cells and through the action of enzymes segregated by special bacteria.

The production of waste materials and organic matter is present in almost all cooked food manufacturing and farm applications.

This material needs to be either physically removed or digested in some way to maintain efficient and clean functioning.



Description

Hydra Bio Sludge Buster is a mixture of bacteria necessary for molecular metabolism of organic waste.

It works as a biological activator that breaks down the residual organic matter by enzymatic means.

In essence, a biological chain reaction begins that can continue until all the organic material has disappeared.



Animal Effluent In Soil

Hydra Bio Sludge Buster can also be used in animal pens and enclosures where urine and faeces are often highly concentrated in the soil.

This high concentration leads to flies and strong smells especially during the summer months.

Effluent tends to have an acidic pH, because Hydra Bio Sludge Buster contains calcium carbonate it brings the acidic pH back to neutral, this enables the beneficial bacteria to thrive.

Spread over the area to be treated and mix into the soil if possible.

1 kilo treats 10 sq. metres, retreat monthly if necessary. Harmless to animals and wildlife.



Accelerates breakdown of organic material.

Clears blockages and prevents blinding screens.

Considerably reduces bad odours and flies.

Reduces harmful gases (ammonium levels).

Suppression of crusts in pits.

Breaks down and recovers organic material (accelerates the natural process). Easy emptying of the pits for easy application on crops.

The microorganisms in Hydra Bio Sludge Buster are naturally occurring and will not harm the environment.

These bacteria and other microorganisms have the ability to reduce the total nitrogen and ammonia content of the waste.



How To Use

Slurry Waste

1 kilo Hydra Bio Sludge Buster per 50 m³ of slurry/waste.

This dose is recommended as a first load.

Repeat dosing to be applied every 25 days.

Simply apply Hydra Bio Sludge Buster to the slurry pit and leave to activate.

For large storage systems stir, spread or mix over the tank surfaces.

Temperature enhances the action of Hydra Bio Sludge Buster provided it does not exceed 40 °C.

The lower the temperature, the lower the speed with which the waste is broken down.

The doses are by way of guidelines, as in each case it is necessary to consider the characteristics of each pit or drain, as well as the volumes.

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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