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## **BioAg DFD®**

### **Dairy Effluent Digester**

#### **Product Overview**

Effluent management is a growing concern on many New Zealand dairy farms due to increased herd size, more intensive farming systems and environmental scrutiny. Although the volume and composition of effluent produced varies greatly according to the individual property and season, many single-pond systems are now incapable of handling the increased volumes of effluent generated.

Non-performing effluent systems are instantly recognisable by the presence of persistent surface crusting and their pervasive odour. The depletion of oxygen in the water, combined with lack of sunlight, reduces microbial digestion. The proliferation of anaerobic bacteria can lead to an increase in hydrogen sulphide (i.e. rotten egg gas) and increased pH (i.e. alkalinity)

BioAg DFD® helps to create and maintain a balanced microbial environment in effluent ponds, thereby stimulating microbial digestion of organic matter. This fermented microbial culture contains a rich source of vitamins, minerals, proteins, enzymes, amino acids, carbohydrates and growth promoters. In effect, it provides a rich food source for facultative anaerobes and aerobic microbes to populate and diversify.

BioAg DFD® is suitable for all types of effluent management systems. Depending on the thickness of the surface crust, a number of physical and chemical changes can be observed in ponds within four to six weeks of treatment.

#### **Features and benefits**

- Stimulates aerobic microbial activity in effluent ponds
- Digests suspended solids into plant-available liquid nutrients
- Reduces turbidity and increases the liquids to solids ratio
- Reduces surface crusting, solid waste and the need for desludging
- Reduces unpleasant odours
- Suitable for all types of effluent management systems
- Other uses include: Herd home floors
  - Animal bedding
  - Waste water treatment environments
  - Septic tanks
  - Composting
- BioGro permitted for certified organic production
- Available in 2L, 5L, 20L, 60L, 200L and 1000 L containers

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## Initial treatment

- Dilute BioAg DFD® in water (1:20–40)
- Agitate contents before use
- Partially fill spray tank with water
- Add 2/3rd of initial charge dose
- Fill the remainder of the spray tank
- Spray evenly over the wet crust and the liquid portion of the pond
- Use within 48 hours of dilution
- Pour remaining 1/3rd of initial charge dose into a dairy shed drain and flush through

Consult your BioAg advisor for the appropriate initial treatment or charge dose for your specific situation or refer to the BioAg Application Guide Ver3.4 available on request.

As a general rule use 20L of BioAg DFD® concentrate for the 1st 0.5 megalitre (1M litres) then add 10L for every complete megalitre thereafter.

## Storage and handling

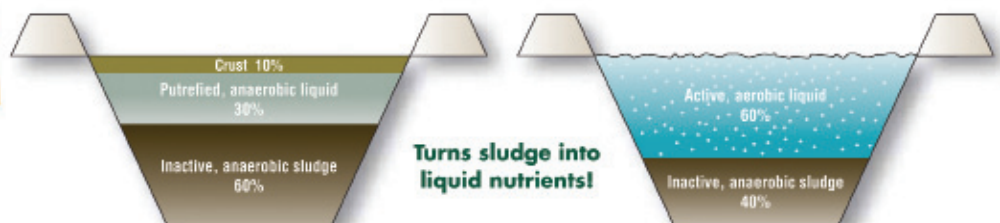
- Store containers out of sunlight and below 30°C
- Shelf life: 18 months

## Ongoing treatment

- Agitate contents before use
- Pour the required daily dosage of undiluted BioAg DFD down a convenient drain within the dairy shed at the start of milking

Herd size	Application rate
General guideline rates – consult your BioAg advisor or refer to the Application Guide Ver3.4 available from BioAg	
Up to 150 cows	0.5-1L / day
151–250 cows	1.0–1.75 L / day
251–450 cows	1.75–3.0 L / day
451–650 cows	3.0–4.25 L / day
651–850 cows	4.25–5.5 L / day
851–1,250 cows	5.5–8.25 L / day
For cow numbers above 1250 please consult your BioAg advisor	

*Confinement feeding and housing e.g. cow barns, herd homes, standing or feed pads and calf rearing shelters, please consult your BioAg advisor for specific application advice*



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**For enquiries, contact BioAg on  
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