

INFORMATION SHEET FOR SLURRY BASED SYSTEMS

PRODUCT INFORMATION

For the control of slurry odours and the reduction of agitation time through liquefaction of solids and sludge build-up in slurry tanks, including slatted systems, and lagoons.

PRODUCT DESCRIPTION

A dry product containing a synergistic blend of specially selected natural organisms fortified with enzyme catalysts. These organisms have been isolated from the environment as being particularly effective in liquefying and de-odourising the organic materials found in cattle slurry tanks and lagoons.

PERFORMANCE

Most types of slurry tanks and lagoons are notoriously difficult to properly agitate and empty completely due to the build-up of crusts, solids and sludge in the system. The application of EPIZYM-CATTLE, which positively digests and liquefies all forms of organic animal waste and solids, will significantly reduce tank or lagoon agitation and emptying time. It will also create a homogeneously mixed liquid product that will on spreading help to ensure an even application of fertiliser nutrients to crops.

Also, and resulting from the application of EPIZYM-CATTLE, odour levels are greatly reduced, even whilst agitating and spreading, and thus minimising the risk of complaints from neighbours or nearby domestic conurbations.

Case histories available from Epizym demonstrate the effectiveness of EPIZYM-CATTLE on commercial farms through:

- a) The liquefaction of slurry system solids, sludge and crusts.
- b) Reduced and easier tank and lagoon agitation time.

c) A homogeneously mixed and odour reduced liquid slurry product that will help to ensure an even and beneficial application of fertiliser nutrients to crops.

BENEFITS

- Easy to use one-step application procedure.
- Will reduce solids and sludge in the slurry system and crusting on top of holding tanks and lagoons.
- Reduced tank or lagoon agitation time prior to spreading.
- Natural biological activity will enzymatically alter odour-forming compounds into non-odour compounds.
- Cleaner overall atmosphere and conditions in buildings improves animal health and performance.
- Better crop yields from increased available nitrogen and phosphorous levels by spreading of homogeneously mixed liquid slurry, and reduced leaf contamination by slurry solids.

COST EFFECTIVE

- Will remain active in low slurry temperatures (5 deg C).
- Is tolerant of and will remain active on exposure to low levels of antibiotics and hypochlorites.
- Less mixing and agitation time required thus reducing machinery or contractors costs and labour.
- More liquid slurry improves complete tank emptying performance resulting in more useable storage capacity.
- A more manageable liquid slurry improves performance standards of slurry spreading equipment, and gives improved leaf washoff in the field and better soil absorption.
- Is non-corrosive to metal, concrete or plastic components in the slurry systems and slurry spreading equipment.
- Helps to improve local community relations through reduced odour levels.

PRODUCT CALCULATION

(EPIZYM-CATTLE comes in 1kg containers)

1. STORAGE TANK(S) with 25% or more water inclusion (rainwater, yard run-off, etc.).

Calculate the total number of cows (2 youngstock = 1 cow) whose slurry will go into the tank and divide by 18. Result is the number of EPIZYM-CATTLE kgs required for the initial (purge) dose of the storage tanks(s).

2. SLATTED TANKS (or for tanks with less than 25% water inclusion).

Calculate the total number of cows (2 youngstock = 1 cow) whose slurry will go into the tank and divide by 15. Result is the number of EPIZYM-CATTLE kgs required for the initial (purge) dose of the storage tanks(s).

3. After partial emptying of the system (25% - 50% of capacity) or after three months from the initial purge dose, a secondary maintenance dose of half the initial purge dose should be applied.

SHELF STABILITY

For long term stability, EPIZYM-CATTLE is supplied as a dehydrated powder. To activate the micro-organisms and enzymes, mix with warm water immediately before use.

HEALTH AND SAFETY

- Contains natural micro-organisms
- Harmless to humans, plants and animals
- Contains no toxic or hazardous chemicals, acids, caustics or solvents
- Biodegradable

All information given by Epizym Limited and its authorised representatives is given in good faith and to the best of its knowledge based on Epizym Limited's procedures in effect. Each user of the product must make their own determination of the suitability and amount of product required for a particular application as

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4. If the tank is emptied (less than 20% full) restart with an initial (purge) dose as noted in 3. above.

APPLICATION PROCEDURES

Rehydrate EPIZYM-CATTLE by stirring into luke warm water (hand hot) at 1 kg to 10 litres (2 gallon). Leave for 30 – 45 minutes (stirring occasionally) and then apply as follows: -

1. CIRCULAR TANKS – Pour into the reception pit, which should be full of fresh slurry, and pump into the tank within 24 hours.
2. SLATTED TANKS – Pour into the tank at approximately 1 metre (4ft) intervals.
3. LAGOONS – refer to distributor.
4. To ensure easy application further dilution of the product can, if necessary, be made just prior to use.
5. NB. EPIZYM-CATTLE must always be applied to the liquid fraction and never to the crust.

CAUTION

- Avoid using with biocides and other detergents, as this will negate the effects.
- Do not use on absorbent surfaces.

STORAGE

Keep in a cool dry place. Do not allow the product to become damp or wet in storage.