

RBC CesClean

Septic tanks

Cess pits

Slurry pits

Bio-Disks

Package treatment systems

(BOD, FOG, sludge reduction, biological start up and upset recovery, food waste composting)

Overview

A fully water soluble biological product for the treatment of Domestic sewage and other household wastes. Comprising a concentrated consortium of waste degrading bacteria and fungi with free enzymes and nutrients. The product is packed in a biodegradable cellulose film to give a dose controlled application

Technical Description

A septic system is a small-scale sewage treatment system common in areas that lack connection to main sewage system and so frequently found in rural areas. The term "septic" refers to the anaerobic environment that develops in the septic tank, pipework and drainage field due to the activity of micro-organisms and absence of oxygen that results from the rapid breakdown of organic waste. Careful maintenance of this microflora is required to ensure efficient operation of the system and prevent blockages and flooding.

The start-up of a septic system through 'natural attenuation' can be time consuming and prone to problems. Bioaugmentation or seeding with RBC CesClean rapidly speeds up this process and helps establish a healthy biomass that stabilizes and protects the many other natural micro-organisms that together completely degrade liquid household wastes.

The micro-organisms in RBC CesClean are efficient waste degraders capable of adapting to changes in their environment and producing just the right amount of enzymes to deal with the waste challenge. Free enzymes are also included in the formulation to help the bacteria along. Also included are some complex nutrients to reduce the change of starvation when nutrient levels are low.

The complex biological processes performed in an efficient septic tank are susceptible to upsets caused by overuse of disinfectants, chlorine-based bleaches and cleaning products in the home. RBC CesClean helps protect against the effects of the products to quickly stabilize any upset. The bacteria in RBC CesClean are able to work more efficiently when oxygen is present (immediately after flushing), but also work at very low oxygen levels which helps prevent the formation of foul odours.

Advantages

Features	Benefits
Fully soluble formulation	Quickly establish a waste degrading biomass to treat all domestic toilet waste
Complex consortium of waste degrading bacteria and fungi	Improves and maintains performance of the septic system and drainage field
Contains all common hydrolase enzymes	Suitable for septic systems, cesspits and other sewage waste holding tanks.
Performs at temperature of between 4-35°C	Effective against all household wastes from toilets and kitchens
Performs at redox potential of between -100 to +300mv	Active at high and low oxygen concentrations
Tolerant to chlorine and many other household cleaning products	Flush and forget, dose controlled application
Biodegradable packaging	Easy tear-open packaging. Dispose of as green waste

Product Characteristics

Physical Aspect:	Fully soluble, white free-flowing powder
Packaging:	50g NatureFlex Film* sachets / 1kg Box 10Kg bulk powder
Stability:	12 months**
Product pH Range:	5.5 to 7.0
Product Density:	0.7 - 0.8 g/cm ³
Moisture Content:	Below 15%
Nutrient Content:	Biological nutrients and stimulants
Bacterial Concentration:	Comprises several types of bacteria and fungi: <i>Bacillus</i> : min 2x10 ⁹ CFU/g <i>Pseudomonas</i> : min 1x10 ⁸ CFU/g Fungi (2 types) min 1x10 ⁶ AS/g
Free enzymes	Cellulase, protease, amylase and lipase

*Natureflex™ metalised film is manufactured from a an ultimately biodegradable cellulose film. When the internal surface of the sachet is wetted the ation of the bacteria within the product renders the film fully compostable within 3 weeks.

** *Bacillus* will remain active for a minimum of 24 months although the *Pseudomonas*, fungi and free enzymes will diminish



Applications

RBC CesClean can be used for start-up, upset recovery and maintenance of:

- Septic Systems
- Bio-disks
- package treatment systems
- Cess pits and other domestic waste holding tanks

Also suitable for home composting of food wastes

Product preparation

For best results, activate the product prior to flushing. This can be achieved by adding the contents of a 50 g sachet to the toilet bowl, then allowing to stand for 10 minutes. Flush directly into the septic tank. Dosing should be scheduled when the flow through the system is at a minimum.

For best results, the make-up water temperature range should be between 21°C and 31°C.

Dosing

Start-up Dose	Maintenance Dose	Recovery Dose
Two 50 g Sachets	One 50 g Sachet per month	One 50 g Sachet every 2 weeks
Day 1 and Day 15	Day 1 of the month	Suggested continue for 2

Optimum conditions for use

The bacteria in RBC CesClean perform within a pH range of between 5.5 and 8.5, with optimum activity near a pH of 7.0. Temperature affects the growth rate of the bacterial population and activity improves with a temperature of between 25°C and 35°C. No appreciable activity can be expected below 5°C and above 55°C.

Storage and handling

- Store in a dry place at room temperature.
- Avoid excessive inhalation.
- Avoid eye contact.
- Wash hands thoroughly with warm, soapy water after handling.

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