



BIO CLEANING SOLUTIONS

GreenWorx

CLEANING SOLUTIONS

Odorite™ DC40 10X FF Conc. (original formulation)

Multi-purpose bioformulation, multi-action microbial consortium

Odorite™ DC40 10X FF microbial consortium demonstrates superior bio-enzyme performance for use in multiple applications. It exhibits a broad range of degradation capabilities needed for a multi-purpose product efficacious in maintenance of drain line and grease traps, improving septic and waste degradation and cleaning and odour control.

In their natural environment, bacteria produce hundreds of enzymes in response to the organics present in their environment. They produce extracellular enzymes that break down proteins, starches, fats, oils, greases and toilet tissue into smaller particles outside the bacterial cell. The bacteria then transport the smaller particles across their cell membrane for use as an energy source and for building of new cellular components. Since bacteria detect the organics present as potential food and produce specific enzymes to breakdown these organics, it is a very efficient system. Many different enzymes are required to completely breakdown a substrate.

Odorite™ DC40 10X FF consortium produces key extracellular enzymes including amylase, cellulase, lipase and protease. Drain lines, grease traps, septic systems and surfaces are nutrient rich systems for bacteria. Although many bacteria can utilise these organics as food sources, it is the bacteria with the most rapid production of these key enzymes that provide the most dramatic effects.

Safety of Odorite™ DC40 10X FF:

Odorite™ DC40 10X FF contains a blend of safe Bacillus microorganisms. Toxicity studies done by an independent laboratory show that the consortium has no acute oral toxicity, no acute dermal toxicity, and no acute inhalation toxicity at maximal test dose. Acute dermal irritation and acute eye irritation studies classify **Odorite™ DC40 10X FF** consortium as non-irritating, it does not elicit a skin sensitisation reaction.

DATA SHEET

Benefits	Features
<ul style="list-style-type: none"> • Drain lines and grease traps – degrades and eliminates organics found in drain lines and grease traps. Regular addition of DC40 10x FF maintains a cleaner and odour-free system. • Septic and waste treatment – maintains effective activity in septic systems, eliminating the need for excessive pumping. Eliminates odours caused by incomplete digestion of malodorous volatile fatty acids. • Bathroom cleaning and odour control – penetrates cracks, crevices and pores of surfaces where organics accumulate, removing the organics leaving a visually cleaner surface. Provides long term odour control by removing the organics that cause odours and prevents their return. 	<ul style="list-style-type: none"> • A stable consortium of safe Bacillus spores • Production of multiple enzymes providing a wide range of degradation capabilities • A synergistic blend that works in concert to provide superior performance across multiple applications • Excretion of high levels of amylase, cellulase, lipase and protease enzymes • Ability to work under aerobic and anaerobic conditions • Single product simplicity for multi-application flexibility

PRODUCT CHARACTERISTICS

- **Bacteria Counts** : 6.5 x 10⁸ cfu/ml (2 Trillion/litre)
- **Bacteria Type** : Blend of *Bacillus* Spores
 - ✓ **Protease** – breaks down proteins (e.g. meat, excreted/secreted proteins) into amino acids.
 - ✓ **Lipase** – breaks down fats/grease into fatty acids and glycerol. If not broken down, fats can go rancid & lead to off-odours and blocked drains/fat grease traps.
 - ✓ **Amylase** – starch acts as a glue for dirt – amylases catalyse the break-down of starch into sugars which are then further used as a food source by the bacillus.
 - ✓ **Cellulase** – breaks down cellulosic material.
 - ✓ **Urease** - catalyzes the hydrolysis of urea into break-down products.

- ✓ **Esterase** - splits esters into an acid and an alcohol in a chemical reaction with water called hydrolysis. Esters have characteristic odours most of which are pleasant/fruity, however can also include onion/garlic and worse odours.
- ✓ **Xylanase** – help in breaking down plant cell walls.
 - What this means – the bacillus use the multitude of enzymes produced to break down the components of malodour and staining to provide microbial cleaning at the smallest level of dirt/contamination.
- **Salmonella** : Not detected
- **Appearance** : Creamy white
- **Fragrance** : Pleasantly perfumed
- **Shelf-life** : Two years; maximum loss of 1.0 log at recommended storage conditions

DOSE RATES (Follow dilution rate)

- Dosages are for the Ready To Use diluted product
- **Odorite™ DC40 10X FF** can be diluted to the following ratio 1:9

1. **AGRICULTURE WASTE:** reduction of high solids/crusting of waste: liquefaction and cleaning (i.e. cowsheds, piggeries, poultry farms etc.)

Area	Initial Dose Rate	Regular Maintenance Rate	Method of Application
Buildings	1kg per 10 tons animal weight	Weekly for two weeks, then 500gm per week	Spray over surfaces
Floors	1kg per 10 tons animal weight	Weekly for two weeks, then 500gm per week	Spray over surface
Effluent Pits	1kg / 20 000 litres	½kg / 20 000 litres per week	Spray on surface
Ponds & Slurry Tanks	1kg / 250 000 litres	Weekly	Spray over cone

2. **SEWAGE PLANTS:** general aid to processing.

Area	Initial Dose Rate	Regular Maintenance Rate	Method of Application
Trickling filters	1kg / 4,5 million litres	500g / 4.5 million litres per week	Add to primary settling tank
Anaerobic digesters	500g / 45 000 litres	Repeat for 3 days then per week	Add to inflow pipe
Retention ponds	500g / 45 000 litres	Repeat for 3 days then per week	Add to inflow pipe
Activated sludge	500g / 45 000 litres	Repeat for 3 days then per week	Add to inflow pipe

3. **FOOD WASTE – DOMESTIC & INDUSTRIAL:** reducing blockage of drains, pipes: treatment of effluent not on main drainage: reduction of odours and general purpose cleaning

Area	Initial Dose Rate	Regular Maintenance Rate	Method of Application
Effluent Tanks, Cess Pits	400g per typical house	100g per month	Through any convenient access point e.g. toilet
Septic Tanks	100g		Direct
Drains	150g per week, for 2 – 3 weeks	150g/month	Direct
Portable Toilets	150g	150g after every emptying	Direct

Odorite™ DC40 10X FF Concentrate is designed as a bio-technical aid to treat organic waste material offering the following advantages: liquefaction and reduction of solids, reduction of odours, easier disposal of waste, aids general cleaning of soiled areas, safety in operation of effluent systems, offers a viable alternative to current processing techniques using a bio-technical approach.

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