



BIO CLEANING SOLUTIONS

GreenWorx
 CLEANING SOLUTIONS

Bio Tech GT X 10 FF Concentrate
Mortuary Deep Clean (DC)

Application for - Multi-Purpose deep cleaning, removal of organics and deodorising in Mortuaries

Mortuary D.C Concentrate microbial consortium demonstrates superior 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, urine, esters 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.

The bacillus consortium in **Mortuary D.C Concentrate** produces seven separate enzymes to ensure a swift degradation of key organic contaminants to ensure drain lines, grease traps, septic systems and surfaces are biologically cleaned and odours controlled. Although many bacteria can utilise these organics as food sources, it is the bacteria with the most rapid production of these enzymes that provide the most dramatic effects.

Safety of Mortuary D.C concentrate Consortium:

Mortuary D.C in-use concentrate contains a blend of safe Bacillus microorganisms. Toxicity studies done by an independent laboratory show that it 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 **Mortuary D.C Concentrate** consortium as non-irritating, it does not elicit a skin sensitisation reaction.

DATA SHEET

Benefits	Features
<ul style="list-style-type: none"> • Degrades and eliminates organics - Regular addition of Mortuary D.C Concentrate maintains a cleaner and odour-free system • Cleaning and odour control - Penetrates cracks, crevices and pores of surfaces where organics accumulate, removing the organics and 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 <i>Bacillus</i> 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, protease, urease, esterase & xylanase enzymes • Ability to work under aerobic and anaerobic conditions • Single product simplicity for multi-application flexibility

PRODUCT CHARACTERISTICS

- **Bacteria Counts** : 6.6 X 10⁸ /ml
- **Bacteria Type** : Bacillus consortium producing the following enzymes:
 - ✓ **Protease** – breaks down proteins (e.g. meat, excreted/secreted proteins) into amino acids
 - ✓ **Lipase** – breaks down fats/grease into fatty acids & glycerol. If not broken down, fats can go rancid and 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** : Clear liquid
- **Fragrance** : Pleasantly perfumed

Dilution rates:

Mortuary D.C concentrate can be diluted dependant on application to a maximum of 1:9. For both domestic and industrial applications, it delivers on the elimination of odours and offers general purpose deep cleaning. Product to be used as is for heavily soiled areas. For maintenance cleaning, dilution of 1:9 with water is suggested.

Mortuary D.C Concentrate is designed as a bio-technical aid to treatment of organic waste material offering liquefaction and reduction of solids, reduction of odour, 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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