

## BIO CLEANING SOLUTIONS

*Bio Tech GTX 10 FF – Floor, Tile and Carpet Cleaner*

### **IMPORTANT NOTICE**

**Green Worx CS contends that this product is manufactured according to and conforms to the terms and conditions as stipulated in SABS/TC 1006/SC 02 "Detergents, soaps, cleaners, degreasers and oil spill dispersants and absorbents" including SANS CD 1604ED1.1:Biologically enhanced cleaning and degreasing products.**

Green Worx Cleaning Solutions offers new ground breaking patented environmentally friendly pre-treat water technology to replace and outperform any wetting agent. This environmentally friendly additive is a solvent, ammonia and glycol free replacement product where powerful wetting performance is required for cleaning and dispersion of particles into solutions or suspensions; it prevents flocking and agglomeration; The additive product performs extremely well and is a replacement for conventional wetting agents to increase environmental acceptance; This new water technology is primarily used in the pre-treatment of water. The quality of water and its properties are manipulated in an entirely natural way. This natural product neutralizes the magnetic charges of particles in water thus reducing surface and interfacial tension resulting in:

Increased adhesion of the liquid to a solid particle thus resulting in a powerful wetting agent.

Allows for water and oil-based droplets to break down into finer globules and to stay in suspension for longer, resulting in powerful emulsification.

The addition of this new technology allows for the transfer of our microbes / probiotics into nooks and crannies resulting in a more effective distribution of probiotics for better degradation of organics ensuring more visible cleaning and deodorising power.

Bio Tech GTX 10 FF- Floor, Tile and Carpet Cleaner is a versatile and effective floor, tile and carpet cleaner enriched with safe probiotic bacteria. Designed for manual cleaning of floor, tile and carpet, including wood, tile, marble, linoleum and more. With each application, the formula of beneficial probiotics, enzymes and green cleaning agents work together, cleaning all the way down to the microscopic level, stabilizing the environment, reducing allergens and drastically reducing odours.

Highly concentrated and economical, Bio Tech GTX 10 FF – Floor, Tile & Carpet Cleaner cleans and degreases quickly and thoroughly and has a residual effect, lasting for up to 3 to 5 days after application. Completely safe for skin and clothing, is biodegradable, non-flammable and non-volatile.

### **Unique Mechanism of Action**

Bio Tech GTX 10 FF – Floor, Tile and Carpet Cleaner floods the surface with millions of safe, healthy probiotic bacteria that displace harmful (pathogenic) bacteria. These "tiny workers" continue cleaning and deodorizing for several days, unlike traditional cleaners that stop working as soon as they are dry.

### **Benefits**

- Highly concentrated and economical
- Cleans down to the microscopic level
- Removes dirt, stains and biofilm

- Drastically reduces odours
- Residual cleaning and deodorizing effect for several days
- Safe for people, pets and the environment

## Uses

- All washable carpets
- Upholstery
- Rubber matting
- Tile and linoleum floors
- Wood and laminate floors

## Important Points

- Biodegradable, non-flammable, non-volatile
- Bacteria: Class 1 (harmless)
- Store indoors at 25°C; shielded from direct sunlight
- Shelf life: 2 years

## PRODUCT CHARACTERISTICS

- **Bacteria Counts** : 1 X 10<sup>9</sup>/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 & 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
- **Shelf-life** : Two years; maximum loss of 1.0 log at recommended storage condition

## Other Information

The proprietary probiotic bacterial strains used in Green Worx CS products are all natural strains and have not been subject to any gene splicing or recombinant technologies (No GMO). They are beneficial and classified as Type 1 (harmless organisms).

## Directions for Use

Always shake the concentrate before mixing to evenly disperse/mix your probiotic workers!  
Dilute in a 1:9 ratio; 1 part active to 9 parts water for heavy soiled floors and carpets

Dilute in a 1:99 ratio; 1 part active to 99 parts water for light soiled floors and carpets

## Pre-treating spots and heavy traffic areas:

1. Fill a spray bottle with 500 ml water and add 5 ml of diluted product.
2. Spray on spots and high traffic areas.

3. Scrub with cloth or light brush (agitate the pile/floor)
4. Leave to air dry prior to vacuuming the carpet.

Pour any remaining solution down the drain to clean and eliminate biofilm and combat odours within the drain system.

**Bio Tech GTX 10 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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