

## BIO CLEANING SOLUTIONS

Odorite Surf Clean Conc 10X FF

**A unique bio-enzymatic formulation for cleaning hydrocarbons (Oil, petrol, diesel and grease) from water and other surfaces**



Description: A biodegradable and biologically active product that is used for the bio-augmentation of oil contaminated areas. This includes landfill, water and waste treatment applications. This concentrate is used in various cleaning and treatment operations. This product decrease total petroleum hydrocarbon (TPH) which makes up grease and oils.

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

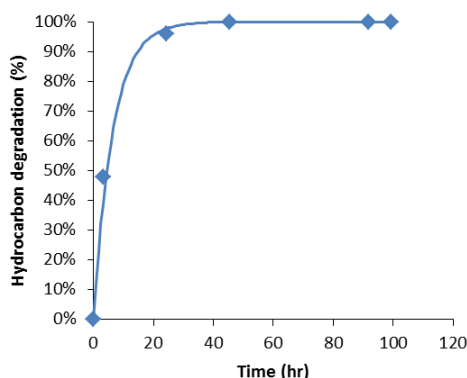
where powerful wetting performance is required for cleaning and dispersion of particles into solutions or suspensions; it prevents flocking and agglomeration; The additive product performs extremely well and is a replacement for conventional wetting agents to increase environmental acceptance; This new 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.

### Application:

Total petroleum hydrocarbons is a term used for any mixture of hydrocarbons that are found in crude oil or derived therefrom. The bacteria in the product breaks down TPH.



This figure shows the complete hydrocarbon degradation in TPH contaminated water using FBB technology.

Concentrated product applications include:

- ☐ For heavily contaminated systems as a seeding or booster treatment.

Ongoing use of the product correctly will have the following benefits: -

- ☐ Bioremediation of the oil waste
- ☐ Lowers tendency for oil waste to leach to ground water and cause contamination
- ☐ Reduces unpleasant odour
- ☐ Less growth and transfer of pathogenic disease-causing organisms
- ☐ Reduced environmental pollution

**Dosage:**

**Odorite Surf Clean Conc 10X**

These products are included at 10% as an active biological formulation ingredient to produce a ready to use product. Always maintain effective dosage.

**Usage considerations:**

- ☐ Control pH ~ 7.00
- ☐ Ensure that treatment system is properly mixed.
- ☐ Ensure sufficient air supply and agitation
- ☐ Do not use non-biodegradable detergents
- ☐ Do not use anti-bacterial or biocidal (kill the good bacteria) products, as this will prevent the treatment from working.
- ☐ Do not use any harsh chemicals such as strong acids or bases as this will kill the bacteria.

All the ingredients for effective bioremediation are included in the product.

**Safety:**

- ☐ Non-hazardous.
- ☐ Non-carcinogenic.
- ☐ Non-genetically modified.
- ☐ Non-pathogenic

**Key Features:**

- ☐ Ingredients Readily Biodegradable (OECD 301)
- ☐ Biological active (contains active natural bacteria)
- ☐ Compatible and enhances water treatment and water re-use systems
- ☐ Packaging minimized, re-useable and recyclable
- ☐ Global Green Tag Certified

Designed to produce enzymes on demand: Active natural bacteria incorporated into the product produce waste degrading enzymes:

Protease	✓
Lipase	✓
Cellulase	✓
α-amylase	✓
Urease	✓
Xylanase	✓

**Starts the waste treatment process at source:**

---

Odour control	✓
Solids breakdown	✓

Phosphate	✓
Nitrate	✓
Nitrite	✓
Ammonium	🌍
COD	🌍
Fats Oils and Greases	🌍

### **Stability:**

The product is stable for 2 years when stored between 4 and 40°C. Due to the use of natural colorants, color changes may occur.

### **Benefits**

A visually water with less effort.

More effective than a solvent-based product, yet is safe to use and friendly to the environment.

### **Features**

Non-toxic, non-flammable biodegradable cleaner

Contains virtually no volatile organic compounds (no toxic odours)

Effectively cleans a variety of hard surfaces including wastewater

Degradades hydrocarbons from water

Safer alternative to harsh chemical (caustic or acidic) cleaners

Non-corrosive and non-irritating formulation means it's safer for users and the environment

Easy to use

### **Product Characteristics**

Bacteria Count  $1 \times 10^8$  cfu/ml

Bacteria Type Blend of *Bacillus* and *Paenibacillus* spores

Bacterial Consortium:

☐ GPA 6.2-Bacillus mythyotropicus

☐ GPA 7.1-Bacillus subtilus

☐ GPA 11.2-Bacillus subtilus

Salmonella not detected

Appearance Tan brown liquid

Fragrance Mild chemical odour

PH 7.0 - 9.0

Shelf-life Two years; maximum loss of 1.0 log at recommended storage conditions

### **Storage and Handling**

Store closed containers at room temperature. Wash hands thoroughly with warm, soapy water after contact.

Avoid eye contact.

### **Dilution Guidelines**

Odorite Surf Clean Conc. 10X FF is a 10X concentrate. This is diluted 1:9 with water & stirred well for 30 minutes to produce a Ready to Use Product.

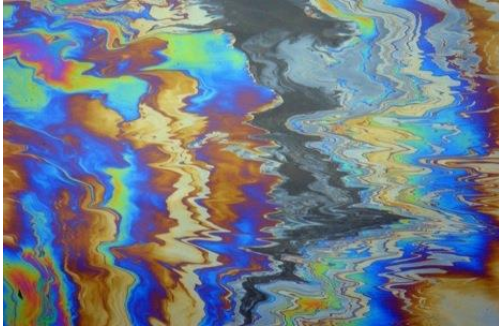
Pack under agitation to ensure spore dispersion in the product.

### **Directions for use of RTU product:**

Use full strength for heavily soiled / contaminated areas.

Spray or pour on area to be degraded

For general cleaning, use 200 – 400 ml per litre of water. For more soiled areas you may have to vary the level of concentrate.



### **CLEAN PETROL, DIESEL OR OIL FROM WATER**

Use Odorite Surf Clean to clean Petrol, Diesel, Oil and more on water.

#### **DIRECTIONS FOR USE**

Blend Odorite Surf Clean with warm water 3:1 (3 parts Water: 1 part Odorite Surf Clean)  
Spray onto the rainbow floating on the water

**Notice how the rainbow immediately disappears**

#### ***Bio Cleaning Solutions, means Green Technology***

This unique formulation meets the criteria for a bio cleaning solutions program for green technology. The bio cleaning solutions designation is used for formulations that utilize biodegradable surfactants at a neutral pH contain no phosphates, no solvents, and low concentrations of volatile organic compounds (VOC).

So it is safe for the user and the environment.

#### **Available Packaging**

- 5- litre containers
- 25 litre containers

*Green Worx CS does not guarantee that the above products can be used as described without prior positive testing or the use of these products does not infringe third parties' patent rights.*

Blended to specification and supplied by **Green Worx Cleaning Solutions**

Manufactured and supplied by **Green Worx Cleaning Solutions**

## Cleaner. Greener. Smarter.



vegan SA



+27 11 708 6626

info@greenworx.eco



www.greenworx.eco