



Applied Environmental Solutions

MicroBest Microbial Waste Treatment

Stabilized patented non-sporogenic bacteria, superior microbial based product. Provides optimum degradation of fats, greases and oils and petroleum hydrocarbons.

- Goes to work immediately – no germination required. Conventional spore technology requires germination and does not achieve metabolic activity until 12 to 24 hours later.
- More complete metabolism (degradation) which results in a greater reduction and elimination of odors.
- Consistent lipase production under various field conditions – lipase is used in the metabolism of fats and oils.
- Significantly reduces fats, oils, greases and odors in grease traps and collection systems.
- Significantly reduces BOD, COD and FOG.
- Significantly reduces petroleum hydrocarbons in parts washers, reclaim pits, and other applications where petroleum hydrocarbons are an issue.
- Ability to formulate degreasers with a built-in capability to degrade petroleum hydrocarbons emulsified during the cleaning process – perfect for industrial floor cleaners, driveway cleaners, etc.
- Completely degrades hydrocarbons to carbon dioxide and water.

Applications

- Grease trap maintenance
- Drain maintenance
- Reclaim pit in car, truck tractor washes
 - Degradation of petroleum hydrocarbons and other stubborn organics
 - Odor control
- Petroleum hydrocarbon degradation in parts/cabinet washers and other applications where petroleum hydrocarbon degradation is required
- Marine bilge cleaners
- RV septic odor control
- Floor cleaners



Specification and Properties

Appearance:	Blue liquid
Bacteria Type:	Stabilized Non Spore Microbes
Bacteria Count:	>1.1 trillion colony forming units (cfu) per gallon
Stability:	There is no reduction in viability and activity for 12 months in the concentrated form and at 10:1
pH:	6.5 – 7.5
Temperature range:	40 - 110°F
Growth:	Performs under aerobic and anoxic conditions
Sp. Gravity @ 25°C:	1.0 +/- 0.02 (8.33 lbs/gal)
Salmonella Free:	Nonpathogenic

Performance Studies

1. Grease Trap & Drain Line Maintenance:

The use of MicroBest Microbial Waste Treatment (MicroBest-MWT) in grease trap and drain line maintenance applications provides benefits vs. traditional spore technology. These benefits include:

- No germination time required. MicroBest-MWT is supplied as live microbes so metabolic activity (degradation of waste) begins immediately. Traditional spore technology begins to germinate relatively quickly but normally requires up to 24 hours to generate metabolic activity. The use of this product results in faster and more efficient grease trap and drain line maintenance.
- MicroBest-MWT has the capability to more completely metabolize fats, oils, and greases, resulting in a further reduction or elimination of odors.
- Excellent performance in varying pH and temperature conditions. See enclosed metabolic activity graphs.

Key Note:

The majority of current spore based products for grease trap maintenance are dosed after the establishment has closed. This is required with sporogenic bacteria due to the mandatory time required for germination and metabolic activity to occur. This is also the time that cleaning is done which can involve high pH products, quaternary based disinfectants, chlorine based sanitizers, etc. Although sporogenic based products remain in the spore state and may be protected from these cleaning and sanitizing compounds, they also cannot germinate from the spore state. If they have germinated, then they have the potential of being destroyed by these cleaning and sanitizing products, thereby providing less capability to be fully effective in the grease trap.

The use of MicroBest-MWT live vegetative bacteria allows the ability to dose the system throughout the day, thereby providing a consistent and more effective means of maintaining grease traps and drains. The MicroBest-MWT technology provides metabolic activity immediately upon coming in contact with the food source.

It is also very common for pH's to vary in grease traps making it difficult for many traditional sporogenic products to provide optimum performance. The MicroBest-MWT technology provides excellent metabolic activity across a broad pH range.