



BIOTIFX[®]

WASTEWATER TREATMENT

PETRO

Biotifx[®] PETRO was designed to degrade TPH, BTEX, GRO and DRO along with the heavy chemical loads of petrochemical industries. In addition, Biotifx[®] PETRO decreases biologically produced hydrogen sulfide (H₂S).



This powder product is formulated with a blend of bacterial strains scientifically selected for their ability to degrade a broad range of hydrocarbons. The formulation is enhanced with the addition of a proprietary blend of micronutrients and biostimulants to heighten performance of the microbial community.

	CHALLENGE	SOLUTION
Time to Remediate	Remediating hydrocarbons requires labor, equipment, and a substantial amount time. The investment of working on-site until the remediation is complete comes at a high cost.	By speeding up the remediation process with the microbes within Biotifx [®] PETRO, the amount of time, labor, and equipment needed to degrade hydrocarbons can be reduced.
Sludge Accumulation	When an activated sludge treatment system is used for hydrocarbon remediation, sludge accumulation is inevitable and requires removal. This removal comes with a high cost.	The bacterial strains within Biotifx [®] PETRO were selected for their ability to digest and remove sludge from the system. This brings significant cost savings by reducing disposal costs and restoring system capacity.
Hydrogen Sulfide (H₂S)	The production of H ₂ S leads to complaints, corrodes mechanical and electrical components, and poses serious safety risks for operators and those around the facility. Conventional treatment is non-preventative, expensive, and capital intensive.	Inhibition of bacteria responsible for the formation of H ₂ S reduces and/or eliminates complaints, corrosion, and safety risks. This prevents the need for conventional treatment.



Dosing

For specific dosing recommendations, speak with your service provider and/or review our system application sheet. The typical dose is between 0.5-5 mg/L of system flow, depending on system design and loading method.

For certain applications, the product should be hydrated in potable water at a ratio of 1kg/2.5 gallons of water (1:10 ratio) for 1-8 hours and then poured into the designated dosing location. If the situation does not allow for hydration, the product can be applied directly.

Applications

- Industrial Lagoons
- Activated Sludge Systems
- Petrochemical Spill Remediation
- Petrochemical Processing Wastewater Plants

Case Study Data

There are attributes that can be modified within a system that allow natural flora to better digest and remove hydrocarbons. This study reflects this fact by showing a reduction in diesel range organics (TPH DRO/C10-C28) by 13% when left untreated. When these practices were combined with Biotifx® PETRO treatment, the reduction in diesel range organics was 65%.

TPH-DRO (C10-C28) Removal

