



PRODUCT BULLETIN

BIOTEK 47

Microbial Hydrocarbon Degradar

General Description

BIOTEK 47 hydrocarbon degrader is specifically formulated to degrade crude or refined hydrocarbons even in saline environments. **BIOTEK 47** degrades crude and process oil in the soil, on beaches, in tanks, and in biological treatment systems. The formulation is a multi-component, biological complex based on broad-spectrum, hydrocarbon degrading microorganisms which tolerate saline conditions. These bacteria are capable of using aromatic, asphaltic, paraffinic and naphthenic crude oils as sources of carbon. The crude oil is converted by the microbes to carbon dioxide, water and microbial protoplasm. The microbial protoplasm produced is a biodegradable source of food for higher life forms. Intermediate products from the crude oil processing such as organic acids, alcohols, aldehydes, ketones, esters, and other chemical intermediates can also be degraded.

BIOTEK 47 is used to degrade spills of refractory organic materials in the soil, on the beach or in salt water. **BIOTEK 47** may be effectively used in all biological treatment plants receiving saline (2+% wastewater).

Application

Specific application rates are dependent on waste composition. Testing of a sample of the waste stream will determine application rate. For optimal results the wastewater treatment system should meet the following conditions:

	OPTIMUM	MINIMUM	MAXIMUM
Influent pH	7.0	6.0	9.0
Dissolved Oxygen, ppm	2.0+	1.0	---
Temperature, C degrees	30 (86 F)	10(50 F)	40(104 F)
Toxic metals, ppm (IE:, hex, chromium)	0	0	0

Physical Properties

Form	Free-flowing powder
Color	Buff to brown
Specific Gravity	.05 - 0.7
Contents	Adapted microorganisms and growth stimulants

Availability

BIOTEK 47 is available in 25 pound and 100 pound containers.

Handling

Observe warning label on product container. Normal precautions for industrial chemicals apply.