
MICROBIAL HYDROCARBON DEGRADER

FOR REFINERY WASTE, MAJOR OIL SPILLS, AND OTHER CHEMICAL INDUSTRIAL WASTE

Active Ingredients

A proprietary blend of naturally occurring microbes and biochemical accelerators used to degrade various hydrocarbon and organic chemical, which may be toxic.

Description

Microbial Hydrocarbon Degradation has been specifically formulated for oil field and refinery wastes. For use in waste treatment systems, oil sludge farming operations and spill clean-up situations. Designed to deal with wastes resulting from pumping, distilling, fractionation, alkylation and polymerisation processes where wastes are usually of large volume containing high suspended and dissolved solids, surfactants, oil, wax, sulphides, mercaptans, phenolic compounds, cresylates, and other hydrocarbon based compounds.

Microbial Hydrocarbon Degradation is a formulation of naturally occurring microbes and biochemical accelerators. The unique combination of cultures in Microbial Hydrocarbon Degradation rapidly degrades various hydrocarbons and organic chemicals which may be toxic, inhibitory or bio-resistant to natural microbial populations. Destabilisation of biological systems such as changes in incoming waste concentrations, composition of waste, pH, temperature and nutrient level can be mitigated with the regular addition of Microbial Hydrocarbon Degradation to the wastewater and waste disposal systems. The microbial protoplasm produced is a biodegradable source of food for higher life forms.

Microbial Hydrocarbon Degradation, by virtue of its unique formulation, is also well suited to augment the performance of oily sludge farming operations and hazardous spill clean up operations. Microbial Hydrocarbon Degradation should be applied in conjunction with an application augmentation program provided by an engineer.

Advantages

- Highly effective petroleum degrader.
- Adds nutrients to soil as it breaks down the oil.

Suggested Application Rate

1. Disperse one part Microbial Hydrocarbon Degradar in eight to ten parts warm water (about 1l.b per gal). The water should be about 80-100oF (25-40oC). Allow to stand for one to two hours with occasional stirring. Apply liberally on the spill area.
2. Do not add Microbial Hydrocarbon Degradar to the treatment system at a location where toxic or otherwise adverse pH, dissolved oxygen or temperature conditions may exist at peak levels.

	Optimum	Minimum	Maximum
Influent pH	7.0	5.0	9.0
Dissolved Oxygen, ppm	2.0+	1.0+	-
C/N/P Ratio	100/10/1	100/5/1	100/20/1
Temperature, (C)	30	10	40
Toxic Metals, ppm (e.g. Hex chromium)	0	0	2

Storage and Disposal

- Shelf life: Dry- 2 years.
- Store in original container.
- Store sealed in a dry place at room temperature not exceeding 100 degrees f.
- Do not allow product to become wet or moist prior to use. Do not freeze.

Cautions

- Inhalation and direct skin contact should be avoided. Dust protection for eyes, nose and mouth should be used. In the event of direct skin or eye contact, flush the affected area with water. If irritation persists, contact your physician.
- Always consult the material safety data sheet for specific instructions.