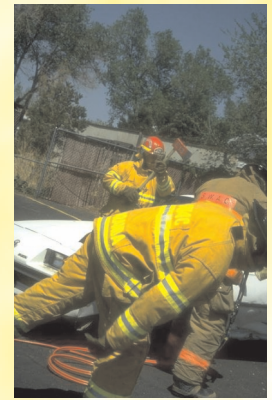




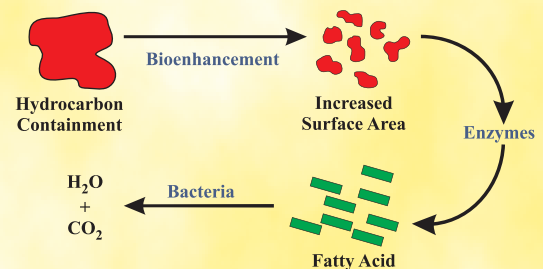
BioRem 2000 FUEL ELIMINATOR™



- ◆ Ground-breaking Microbe Technology remediates hydrocarbons into water and carbon dioxide.
- ◆ Renders volatile fuels (gasoline, diesel, etc.) and many solvents non-flammable and biodegradable within minutes.
- ◆ Significantly reduces VOC's and elevates LEL's.
- ◆ Replaces AFFF, granular absorbents (Speedy Dry, Oil Dri), socks and pads.
- ◆ Reduces clean-up time, disposal costs and liabilities associated with land-fill waste.
- ◆ Eliminate sheens and leaves a non-slip surface for safe clean-up efforts.
- ◆ Safe to use on concrete, asphalt and painted surfaces.
- ◆ Non-toxic, non-hazardous and is completely harmless to human, plant, animal and marine life.

BioRem-2000 Fuel Eliminator™ significantly reduces the ability of volatile fuels to ignite. It inerts the VOC's on initial application and elevates LEL's within minutes eliminating the potential of ignition. AFFF "Foaming" residues creates an environmental challenges as many are considered hazardous waste resulting in high, long-term cleanup costs. Spills of less than 55-gallons have current standard operating procedures that include using absorbents such as "Speedy Dry", Oil Dry and absorbent socks and pads. These treatment options unavoidably leave untreated fuel residue which creates issues for run-off into storm drains as well as creating sheens and damaging surfaces such as asphalt. These treatment options "move" rather than treat the contaminates. Additionally, the treated fuel solution can be recovered by vacuum equipment without danger of ignition or damage to equipment. Any residual "unrecoverable" effluent is encapsulated in an microbe-laden solution that allows for significant acceleration of the remediation process. Packaged in 5-gallon pails (8900-005), 15-gallon (8900-015), 55-gallon drums (8900-055) and 275-gallon totes (8900-275).

- ◆ Bioremediation uses microbes and enzymes to biologically transform hydrocarbons into non-toxic substances carbon dioxide and water.
- ◆ It increases the surface area of the oil while the enzymes break down the contaminants into smaller molecules.
- ◆ The enzymes then attract the microbes which use oxygen to oxidize part of the carbon in oil to carbon dioxide while the rest of the carbon is used to produce new cells and the oxygen gets reduced, producing water.



Before
After



BioRem-2000 Fuel Eliminator™ at work to the left -- A 1,000 gallon underground storage tank containing jet fuel residue and flammable vapors. Before this tank could be dismantled with cutting torches, the tank needs to be thoroughly cleaned to remove the residue and flammable vapors. Two-gallons was applied and circulated throughout the tank. The remaining jet fuel was remediated, rendering the fuel non-flammable and neutralizing any flammable vapors. The tank was rinsed with pressurized water leaving a clean, vapor-free environment.

Hydrocarbon Degrade Chart

Crude Oil	Gasoline	Diesel Fuel	Xylene
Kerosene	Fuel Oils	Jet Fuel	Toluene
Transmission Fluid	Motor Oil	Anti-Freeze	Glycols
Paraffin	Lubricating Oil	Grease/Tars	Carbon Black
Skydrol	Hydraulic	Cutting Fluids	Benzene
Acetone	Mineral Spirits	Paint Thinners	Animal Grease
Methanol	Vegetable Oils	Heating Oil	Solvents