

### FEATURES & BENEFITS

- Neutral pH, noncorrosive, nonhazardous
- Disposable in waste/sewer drains
- Works on organic grease as well as other oils, greases and fuels
- Removes stains and dries quickly and residue free
- Safe to use on any water-safe surface including metal, concrete, plastic, tile and rubber
- Chemically transforms a variety of oils and oil byproducts into CO<sup>2</sup> and water
- Renders flammable liquids, such as gasoline, diesel and jet fuel,
- Non-flammable

### BIOREMEDIATION TECHNOLOGY

Bioremediation is the application of biological microbes for the cleanup of hazardous oil spills resulting in a safe, efficient and cost-effective solution. Bioremediation (Fig. 1) uses microbes, enzymes, oxygen and other nutrients to chemically transform oil into carbon dioxide and water. ENVIRO SOLUTION (Fig. 2) increases the surface area of the oil while the enzymes break down the contaminants into smaller molecules. The enzymes then attract the microbes (Fig. 3) and consume the oil leaving only water and carbon dioxide as by-products. Once the reaction is complete, the enzymes break free to attach to another hydrocarbon source in order to repeat the same reaction.

Fig. 1

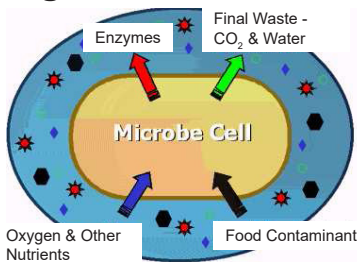


Fig. 2

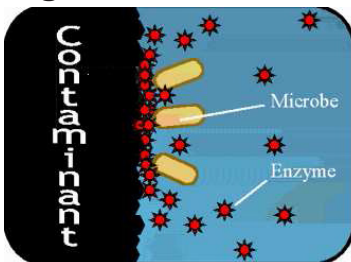
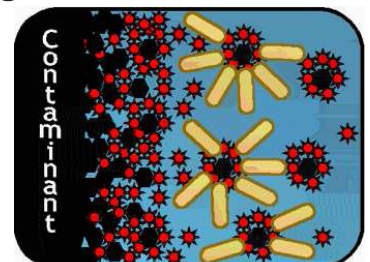


Fig. 3



### SAFETY SOLUTIONS

ENVIRO SOLUTION has a pH of 7 and does not have any odor or contain any corrosives or butyls. These microbes are naturally occurring, not genetically engineered and are nontoxic and nonpathogenic. It prevents slip and fall accidents, which are 30% of all workplace accidents, by removing the oily film and leaving surfaces dry and oil free. ENVIRO SOLUTION significantly reduces the ability of flammable hydrocarbons to ignite. First, the VOC's are inerted on contact, eliminating the potential of ignition. Second, it removes the fuel and slickness resulting in reduction of future accidents and surface degradation.

### FOOD PROCESSING SOLUTIONS

ENVIRO SOLUTION removes and degrades vegetable and animal oils, organic and inorganic greases, along with proteins, starches and carbohydrates. This product is acceptable for use as a general cleaner (A1) on all surfaces in and around food processing areas, where its use is not intended for direct food contact. This product is also acceptable as a floor and wall cleaner (A4) in and around food processing areas, where its use is not intended for direct food contact. Use of this product in food processing or handling facilities requires that all food products and packaging materials be removed or protected prior to product use. A potable water rinse of cleaned surfaces is required after use of this product. When used according to manufacturer's instructions, the cleaner shall neither exhibit a noticeable odor nor leave a visible residue. Provides "deep cleaning" by penetrating the floor's surface and removing embedded oil/grease left in pores, cracks, grout and crevices by soap-based degreasers. Floor drains, normally clogged by soap-based cleaners, stay clean, free running and odor free.

## USES & APPLICATIONS

**Mopping:** Fill the container with properly diluted product (see chart). Unlike degreasers, ENVIRO SOLUTION digests oil and grease. As a result, there will not be an oily film on the water in the mop bucket. The solution may be used for several days until a film begins to appear. Although the water may look dirty, it does not mean the solution has stopped working. If the solution does not seem to be “picking up” the oil very well, then it is time to change the solution. For best results with oily floors or visible oil, allow the solution to remain on the surface for about 30 seconds before mopping. Liberally apply to floor with a wet mop, dip mop again into bucket and agitate solution into the surface. If the grease and/or oil is very thick, use an old push broom to scrub the solution into the surface before mopping. ENVIRO SOLUTION will remove the oily film and leave the surface dry and clean, preventing slip and fall accidents.

**Auto Floor Scrubber:** Fill scrubber with properly diluted product (see chart). Start with a 1:25 dilution rate and adjust after testing. Add product to the solution tank full of clean water or dispense through a proportioner system. For best results, employ the double-scrub method. For the first auto floor scrubber pass, do not lower the squeegee. Spray solution while scrubbing. For the second pass, spray solution, scrub and lower squeegee for soiled water removal. ENVIRO SOLUTION will clean the auto floor scrubber by removing the hydrocarbon buildup in the tanks, therefore enhancing the overall performance. Leaves surface dry and oil-free without any residue and prevents slip and fall accidents.

**Degreasing:** Fill container with properly diluted product (see chart). The dilution rate may be determined if the operator will be using rags to clean (stronger), scrub brush (medium) or rinsing with a power washer (weaker). When cleaning heavy oil/grease deposits, allow product to soak for 1-2 minutes before removing. Heavy deposits of synthetic grease may require additional dwell time. ENVIRO SOLUTION will remove the oily film, leaving the surface dry and clean. It may be used on any water-safe surface.

**Oil/Water Separators (OWS):** These can be costly to maintain and, if not properly managed, can pollute surface and ground water, leading to costly violations. ENVIRO SOLUTION improves OWS operations and reduces costs and liabilities. Conventional degreasers disperse oil in wash water and make OWS's ineffective, allowing oil to bypass the collection system straight to the sewer. ENVIRO SOLUTION added to an OWS breaks down petroleum products suspended or dissolved in the wastewater, floating oil and/or sludge. Facilities using ENVIRO SOLUTION have eliminated wastewater violations and have reported reducing their sludge petroleum content by more than 80%. Such reductions lower the regulatory status of OWS sludge, which will affect the required disposal method and disposal costs.

### Hydrocarbon Degradation Chart:

- Crude Oil
- Gasoline/BTEX
- Cutting Fluids
- Ethanol
- Kerosene
- Aviation Fuels
- Synthetic Oils
- ATF & Brake Fluid
- Glycols/Antifreeze
- Lubricating Oil
- Diesel
- Methanol
- Solvents
- Naphtha
- Vegetable Oil
- Heating Oil
- Hydraulic Fluids
- Grease/Tar
- Skydrol
- Food-Grade Oil

### Dilution Chart:

Applications & Ratios	Heavy Duty	Medium Duty	Light Duty
Floor Scrubber	1:20	1:30	1:40
Mopping	1:5	1:10	1:15
Pressure Washing	1:25	1:50	1:75
Degreasing	1:2	1:4	1:8
Spill Control	1:1	1:5	1:10

## FUEL REMEDIATION & CLEANING POWER

The figure shown on the left shows a 1000 gallon underground fuel storage tank containing jet fuel residue and flammable vapors. Before this tank could be dismantled with cutting torches, the remaining fuel needed to be neutralized and the tank thoroughly cleaned to remove any flammable vapors. Two gallons of ENVIRO SOLUTION were applied and circulated throughout the tank. The picture on the right shows that the remaining jet fuel was remediated, rendering the fuel nonflammable and neutralizing any flammable vapors. The tank was rinsed with pressurized water, leaving a clean, residue-free and vapor-free environment.

