



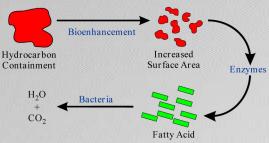
BIOREMEDIATION TECHNOLOGY

"BioRem" short for biological remediation, is an environmentally- preferred "green" technology and economically- desirable option for companies searching for a viable alternative to caustic and solvent- based parts cleaners. Bioremediation is the natural process of biologically converting hazardous chemicals, such as hydrocarbons, into non- toxic by- products using microbes, enzymes, oxygen and other nutrients to biologically convert hydrocarbons into carbon dioxide and water.

These innovative, biological cleaners are ideal for removing oil and grease from tools, engine components and other parts. Bioremediation can provide the opportunity for facilities to eliminate and/or reduce hazardous waste, workplace health and safety risks, environmental liability and costs. It is an ideal replacement for d'limonene, naphtha, mineral spirits, MEK, methylene chloride and other petroleum- based solvents.

BioRem-2000 Surface Cleaner use state- of- the- art microbe technology to provide superior cleaning results without the disposal costs and safety risks of traditional solvent and surfactant- based cleaners. They are strong enough to remove heavy build- up of oil, grease and grime from the toughest industrial cleaning tasks without the risks that conventional cleaners cause.

BioRem-2000 Surface Cleaner are all-natural botanically-blended enzymatic system which is coupled with 12 strains of microbes that accelerates the digestion of hydrocarbons in surface-washing applications. Microbes convert hydrocarbons enzymatically prior to the ingestion of the organic material. It breaks down macroscopic clumps of hydrocarbons into smaller molecules and increases the surface area of the molecules making them more water-soluble.

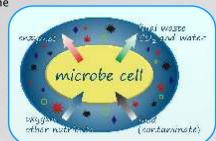


The microbes use a process of extracellular and intracellular enzyme production in which enzymes are excreted from the microbial cell. The microbes secrete various enzymes that begin the process of cleavage and digestion of the hydrocarbons. The enzymes chop the long- chains of the hydrocarbons into two carbon units which are used as a source of food for the microbes to reproduce.

The resulting by- products are carbon dioxide and water. Once the reaction is complete, the microbes and enzymes break free and attach to another chain of hydrocarbons in order to repeat the same process.

The unique characteristic of the microbial blend is its ability to adapt to the changing distribution of hydrocarbons and produce more of the enzymes needed to digest that particular type of chemical allowing the statistics of the reaction to improve by increasing the number of collisions per second.

All of the microbes used in the BioRem- 2000 Surface Cleaner are completely safe, non-pathogenic and are classified as ATCC Class I, which has no recognized hazard potential under normal operating conditions.



Biological Cleaners Versus Caustic and Solvent-Based Cleaners:

Microbe- based cleaners differ from solvent and caustic- based systems by using a non- toxic and pH- neutral solution that does not require special handling or disposal. High cleaning efficiency is maintained, unlike that of caustic and solvent- based cleaners. Caustic and solvent- based cleaners lose their performance quickly, as oils and greases damage the cleaning solution. Biological

cleaners maintain performance over very long periods, as oils and greases are broken down into carbon dioxide and water by the microbes in the system. Unlike caustic and solvent-based cleaners, biological cleaners offer a consistently high cleaning performance by using natural micro- organisms which break down contaminants such as oil and grease.

- ◆ Effective Consistent performance is maintained over a long period, unlike that of caustic or solvent- based cleaners.
- Economy Concentrated formula which eliminates costs for transportation, storage or disposal of cleaning solution.
- Safety Neutral pH, non-flammable, no VOC's and is non-hazardous. No unpleasant odours.
- Environmental Reduces your carbon footprint and does not generate hazardous waste disposal.
- Versatile Use on all metals and washable surfaces.



contaminant

Biological Products Versus Other Bio Products:

BioRem- 2000 Multi- Surface Cleaner are concentrated formulas whereas most other biological cleaners are a ready- to- use product. The BioRem- 2000 Multi- Surface Cleaner can be used in a variety of cleaning applications. BioRem- 2000 Multi- Surface Cleaner do not require impregnated mats or filters, as the solution contains multiplying microbes and enzymes for a consistently effective and safe cleaning.

- ♦ Versatile Can be used in virtually any manual parts' washer.
- ◆Economical Concentrated formula with a dilution of up to 100:1
- ◆Effective Microbes in solution no mats or packets.
- Powerful Works well on heavy synthetic oils and greases.



BENEFITS

- Powerful Microbe Technology remediates hydrocarbons into water and carbon dioxide.
- Effective Eliminates 100% of disposal costs.
- Superior Replaces granular absorbents, socks, pads and caustic degreasers.
- Versatile Easily applied with mops, auto floor scrubbers and degreasing equipment.
- Fast Removes all oily, slick film leaving a non-slip surface to prevent slip-and-fall accidents.
- Advanced Safe to use on any water-safe surface, including metal, concrete, plastic and rubber.
- Economical Disposable in waste sewer drains, reduces discharge figures and is compatible with skimming, evaporators and polymer systems.
- Safe Non-hazardous, neutral pH and low toxicity to plant, animal and marine life.

USE & DILUTION - CHARTS

Use to Clean - Chart

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

Dilution - Chart

Applications	Heavy	Medium	Light
& Ratios	Duty	Duty	Duty
Floor Scrubber	1:20	1:30	1:40
Mopping	1:5	1:10	1:15
Degreasing	1:2	1:4	1:8
Pressure Washing	1:50	1:75	1:100
Spill Control	1:1	1:5	1:10

PRODUCT LIST

BioRem-2000 - Multi-Surface Cleaner [Item No. 8900-xxx] All Surface Degreaser
BioRem-2000 - Fuel Eliminater [Item No. 8901-xxx] Fuel Elimination, Spill Remediation
BioRem-2000 - Parts Cleaner (Liquid) [Item No. 8003-xxx] General Parts Cleaner
Beyond Green Cleaning - Oil Vanisher [Item No. 8805-xxx] Remove Deep Rooted Oil Stains

CERTIFICATIONS

- Recognized By the EPA's DfE Program as a safe alternative to chemicals without sacrificing performance.
- ◆ Listed On the U.S. EPA National Contingency Plan ("NCP") Product Schedule.
- ◆ Approved For food processing and food service facilities (A-1, A-4).







BioRem-2000 Surface Cleaner™ is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of BioRem-2000 Surface Cleaner™ on an oil discharge. This listing means only that data have been submitted to EPA as required by subpart J of the National Contingency Plan, Sec. 300.915. EPA/DfE recognition does not constitute endorsement of this product. The Design for the Environment logo signifies that the formula for this product, as Clift Industries, Inc. has represented it to the EPA, contains ingredients with more positive health and environmental characteristics than conventional cleaners. EPA/DfE relies solely on Clift Industries, Inc., its integrity and good faith, for information on the composition, ingredients, and attributes of this product. EPA/DfE has not independently identified, i.e., via chemical analysis, the ingredients in the product formula, nor evaluated any of the non-ingredient claims of Clift Industries, Inc. EPA/DfE expresses its judgment and professional opinion only as to the environmental and human health characteristics of the product, based on currently available information and scientific understanding.

USES & APPLICATIONS

BioRem-2000 Multi-Surface Cleaner [Mopping]:

- Powerful Outperforms traditional "degreasers" which emulsify and re-deposit oil.
- Effective Dries quickly and increases traction eliminating slippery, greasy floors.
- Superior Cleans mop buckets and mop heads extending life and performance.
- Economical Lasts 5 times longer and treats more area than traditional cleaners.





BioRem-2000 Multi-Surface Cleaner [Auto Floor Scrubber]:

- Powerful Performs better than "degreasers" which emulsify and re-deposit oil.
- Effective Leaves oily, slippery floors clean, dry and residue-free.
- Superior Cleans scrubbers brushes/pads, tanks, hoses and squeegees increasing performance.
- ♦ Economical Dilution up to (1:40).

BioRem-2000 Multi-Surface Cleaner [Degreasing]:

- Powerful Performs better than "degreasers" which emulsify and re-deposit oil.
- Effective Leaves oily surfaces clean, dry and residue-free.
- Economical Dilution from (1:8) to full strength for pre-soak and rinse.
- Safe On any water-safe surface (plastic, rubber, concrete, painted and metal).





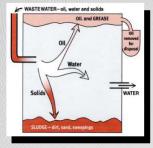
BioRem-2000 Multi-Surface Cleaner [Pressure Washing]:

- Powerful Removes tough oil, grease and grime deposits on all types of surfaces.
- Effective Significantly reduces wash water pollutant levels.
- Versatile Effective with cold and hot-water pressure washers.
- Safe Will not harm pressure washer seals or pumps.

BioRem-2000 Multi-Surface Cleaner [Spill Control]:

- Powerful Suppresses odors and vapors from volatile spills.
- Effective Reduces "cradle-to-grave" liabilities.
- Versatile Gas pump, railroad spills and disconnects and tank cleaning.
- Economical Reduces cost of spill response and treatment.





BioRem-2000 Multi-Surface Cleaner [Oil / Water Separators ("OWS")]:

- Powerful Reduces the frequency of pumping.
- Effective Decreases sludge build-up and eliminates odors.
- Versatile Dissolves the suspended or emulsified oils in the water.
- Safe Complies with regulations and reduces violations.

USES & APPLICATIONS

Parts Cleaning-Liquid

BioRem-2000 Parts Cleaner - is a powerful, concentrated water-based bioremediating cleaner with superior cleaning capabilities which eliminates waste disposal costs and health and safety risks. Effectively converts gasoline (BTEX), diesel, motor oils, fuel oils, grease, antifreeze, hydraulic, brake, ATF, cutting fluids, as well as heavy synthetic oils and greases into carbon dioxide and water. Contains corrosion inhibitors to prevent flash rusting.

- Powerful Microbe-powered concentrated water-based formula with superior cleaning capabilities.
- Effective Consistent performance with quick breakdown and removal of oils and greases.
- Versatile Safe to use on all washable surfaces, including metal, rubber, plastic and painted surfaces.
- Safe No VOC's, pH neutral, caustic and solvent-free, non-flammable and non-hazardous.
- ▶ Economical Dilute 20:1 (6.4 ounces per gallon) with water.





Spill Remediation & Fuel Elimination

Bio Rem-2000 Fuel Eliminater- as a Fuel Eliminator, which significantly reduces the ability of flammable hydrocarbons to ignite. The VOC's are immobilized on contact, eliminating the possibility of ignition and removes the fuel slickness and surface grime.

Bio Rem-2000 Fuel Eliminater - Fuel Eliminator at work.

A 5,000 litre underground fuel storage tank containing contaminated jet fuel with standing grime, residue and flammable vapors needs to be dismantled with a cutting torch, before doing this, the remaining fuel in the tank needs to be neutralized and thoroughly cleaned. With only 5 litres of BioRem-2000 Multi-Surface Cleaner and spray equipment, applied the product and allow it to circulated throughout the tank. Immediately the remaining jet fuel will be rendered non-flammable. The tank can then be rinsed with pressurized water making the tank residue and vapor-free. The process begins immediately upon contact with hydrocarbons and continues until all hydrocarbons are consumed.



With a pressurized sprayer, cover the spill with BioRem-2000 Fuel Eliminater completely saturating the surface of the spill. Allow product to dwell for 3 to 4 minutes. re-apply the product again, then rinse surface with clean water.

- Powerful Microbe Technology remediates hydrocarbons into water and carbon dioxide.
- Effective Renders Flammable liquids, such as petrol, diesel and jet fuel, non-flammable within minutes
- Versatile Safe to use on all washable surfaces, including metal, rubber, plastic and painted surfaces
- Safe Non-toxic, non-pathogenic and is completely harmless to human, plant, animal and marine life.
- Economical Dilute 20:1 (6.4 ounces per gallon) with water.

Oil Vanisher - Ultimate Stain Remover

- Powerful Microbe-powered oil stain remover.
- Effective Quickly removes stains regardless of age.
- Versatile Removes stains from concrete, asphalt, pavers & more.
- Safe Bio-based using only 100% all-natural ingredients.

How to Apply?

Concrete and Pavers: Add product to the stained area. Then apply half the amount of water as product used on the stained area. Use a brush to agitate the stained area for 1 to 2 minutes. Make sure the solution does not dry. If necessary, add more product and water. Rinse the area completely with clean, high-pressure water. If necessary, repeat the application. The product may take longer to remove stains in cooler temperatures.

Asphalt: Use the above directions; however, only agitate the stained area for 30 seconds. Along dwell time is NOT RECOMMENDED because of the oil content in asphalt.





