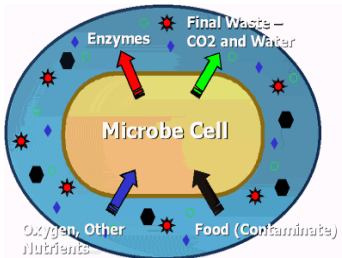
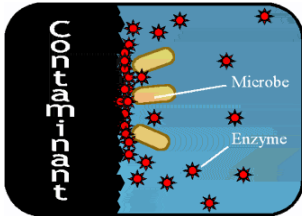


# Baad Bugs Surface Cleaner

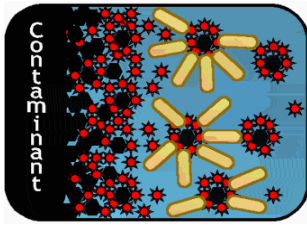
## Features & Benefits

- Eliminates the need for granular absorbents, socks, pads and caustic chemicals with ground-breaking microbe technology.
- Remediate's (chemically transforms) a variety of hydrocarbons (oils & oil by-products) into carbon dioxide and water.
- Eliminates 100% of disposal costs.
- Easily applied with mops, auto floor scrubbers, spray-n-wipe.
- Fast-acting, dries quickly and removes all oily, slick residues *leaving a non-slip surface*.
- Safe to use on any water-safe surface, including metal, concrete, plastic and rubber.
- Disposable in waste sewer drains whether the facilities are private or municipal pre-treatment.
- Renders flammable liquids such as gasoline, diesel and JP8 non-flammable.
- Non-toxic, non-pathogenic and is completely harmless to human, plant, animal and marine life.

## How it Works



Bioremediation is the application of biological treatment to the cleanup of hazardous chemicals. This results in the destruction of organic wastes, and eliminates environmental risk and liability. The process of bioremediation uses microbes, enzymes, oxygen and other nutrients to chemically transform hydrocarbons into carbon dioxide and water. Baad Bugs Surface Cleaner™ (as shown in Fig.1) increases the surface area of the hydrocarbons while the enzymes break down the contaminants into material that the microbes can consume, finally transforming them into carbon dioxide and water. The enzymes used in Baad Bugs Surface Cleaner™ activate oxygen and convert it to a form in which the oxygen atom can be incorporated directly into the hydrocarbon compound, thus breaking the long-chain bonds. The enzymes then attract the microbes surrounding the cell surfaces to catalyze the breakdown reactions. As this process is repeated, the hydrocarbon compound is quickly broken down so that the microbes can then readily assimilate these simple hydrocarbons. Once the reaction is complete, the enzyme breaks free to



attach to another hydrocarbon source in order to repeat the same reaction.

### Applications & Uses

**Mopping:** Fill container with properly diluted product. For best results, use a double-scrub method. Apply with mop, agitating the solution into the surface and reapply. Baad Bugs Surface Cleaner™ will dissolve the hydrocarbons and leave the surface clean and dry without any film or residue, preventing slip and fall accidents.

**Auto Floor Scrubber:** Fill container with properly diluted product. Using for the first time, employing the double-scrub method will give best results. Lay down solution with scrubbing action twice, allowing the solution to remain on surface a few minutes. Then, lower the squeegee blade and vacuum the solution. For maintenance cleaning, use a single-scrub and vacuum method. Baad Bugs Surface Cleaner™ will clean the auto floor scrubber by removing the hydrocarbon build-up in the tanks and enhancing the overall performance as it works.

**Spray-n-Wipe:** Fill container with properly diluted product. Atomize the solution on machinery, equipment and/or tools and agitate the area loosening the oil, grease and grime. Rinse the machinery, equipment or tools with water and allow to air dry or wipe clean with a cloth. The surface will be dry and clean without any hydrocarbon residue or film. Baad Bugs Surface Cleaner™ may be used on any water-safe surface. Some agitation may be required on heavy, stubborn hydrocarbon build-up.

### **Hydrocarbon Digestion Chart**

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

### **Safety**

Baad Bugs Surface Cleaner™ has a neutral pH and does not have any odor or contain any corrosives or butyls. These microbes are naturally-occurring, not genetically engineered, and are non-toxic, non-pathogenic and completely harmless to human, plant, animal and marine life. It prevents slip and fall accidents by leaving surfaces clean and dry. Baad Bugs Surface Cleaner™ significantly reduces the ability of flammable hydrocarbons to ignite. Applying Baad Bugs Surface Cleaner™ to fuel and oil spills can eliminate several issues, unlike foams which blanket the spill.

Baad Bugs Surface Cleaner™ is the only product which can:

- Render VOC's inert on contact, eliminating the potential of ignition.
- Remove the fuel and slickness, reducing future accidents and surface damage.
- Digest remaining fuel or oil into carbon dioxide and water, eliminating expensive conventional cleanup methods.

### **Baad Bugs Surface Cleaner™ vs. Conventional Methods**

Baad Bugs Surface Cleaner™ offers several advantages over the conventional methods of handling hydrocarbon spills such as socks, pads and granular absorbents. These advantages are as follows:





- Conventional absorbents take extended periods to absorb the hydrocarbons.
- Conventional absorbents leave a slick, oily residue which requires additional labor to remove and causes slip-n-fall accidents.
- Conventional absorbents require costly special disposal considerations, usually by means of incineration.

Baad Bugs Surface Cleaner™ converts hydrocarbons into harmless carbon dioxide and water eliminating disposal costs.

Baad Bugs Surface Cleaner™ is not a degreaser - it is a biological remediation product, which quickly transforms hydrocarbons into harmless products. It will not leave any oily residue or caustic film on floors, machinery or tools. Baad Bugs Surface Cleaner™ is compatible with oil/water separators, oil-skimming units, evaporators, as well as biological and chemical wastewater pretreatment facilities. Baad Bugs Surface Cleaner has a neutral pH, does not contain any butyls or harmful ingredients and it can be applied to a variety of surfaces.

### **Baad Bugs Surface Cleaner™ and Internal Coolant/Cutting Fluid Systems**

Baad Bugs Surface Cleaner™ works on a variety of industrial oil and lubricants. It is

designed to remove spills and oil residue from floors, machinery and other surfaces. It will not adversely affect holding tanks of oil or cutting fluids. Baad Bugs Surface Cleaner™ cannot work in “pure oil” solutions because there is no oxygen, and most systems have some type of bacterial-controlling agents. In the event that Baad Bugs Surface Cleaner™ was introduced into an oil/cutting fluid holding system, it would not be able to degrade the hydrocarbons.

### **Environmental & Financial Savings**

Baad Bugs Surface Cleaner™ will have immediate environmental and financial savings as compared to conventional “green” programs. These are as follows:

- Baad Bugs Surface Cleaner™ will reduce disposal costs associated with conventional methods such as pads, socks and granular absorbents.
- It will reduce the amount of time maintenance personnel spend removing hydrocarbons, thus saving labor costs and improving productivity.
- Media promotion of the use of these products will result in increased positive public relations because of reduced overall hazardous waste.
- Baad Bugs Surface Cleaner™ does not alter or change any of the customary work routines.

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