



*Microbes and plants are intimate partners in virtually every life process.*

**PureREMEDIATION** is a synergistic blend of bacteria specifically chosen for metabolizing long chain hydrocarbons.

This product is designed for microbial remediation of gasoline, oil, fuels, diesel, hydraulic fluid and all varieties of aromatic compounds, pesticide spills and organic solvents. **PureREMEDIATION** is also a perfect solution for production water, pad and confinement sites, as well as tank sludge clean-up and disposal.



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## Benefits PureREMEDIATION™

- \* Drastically reduces the volume of fats, grease and oils within the system which diminishes the need for costly pump outs.
- \* Reduces blockages and backups within secondary lines.
- \* Promotes maximum bio-degradation that reduces sludge build up.
- \* Lowers BOD, COD, TSS and reduces foul odors generated by formation of hydrogen sulfide.
- \* Cost effective, safe and environmentally responsible alternative to pump outs and caustic degreasers

### HOW IT WORKS:

Bacterial digestion is the process of bacteria-consuming organic matter. The bacteria feed on the contamination, deriving nutrition for growth and reproduction. Their chemical relations metabolize hydrocarbons into the final metabolic waste products, water and carbon dioxide. This provides the bacteria with the energy they need to live. The result of this natural process is that wastes are used up completely or converted into an innocuous product such as water and carbon dioxide. Once the food source has been depleted, the remaining microbes then self-remediate. The result is clean water without traces of hydrocarbons, toxins and pathogens.

### DIRECTIONS:

Usage rates are site specific and will require you to consult with your PureAg representative.

Several physical and chemical parameters must be controlled in order to obtain optimal growth and maximum degradation of soil contaminants. These include: microbial population, oxygen supply, nutrient concentration, temperature and moisture content, and pH.

**PureREMEDIATION** should be applied as soon as possible after the oil spill or leak has occurred. **PureREMEDIATION** is most effective when soil temperatures are above 53° F, and nutrient and oxygen levels are maintained at proper levels. Effective pH range is between 6.0 and 8.5, with 7.5 being ideal.

Often the limiting factor of aerobic degradation of contaminants is the availability of oxygen. Microbial activity is most frequently limited by insufficient oxygen due to slow rates of diffusion into the interior of the soil layers or piles and into the center of soil aggregates. Generally, the greater the mass of oxygen that can be distributed the more rapid and complete the cleanup. While facultative anaerobes may function in the presence or absence of oxygen, aerobic activity is the preferred method for many contaminants. When bacteria have available oxygen (functioning aerobically) they produce roughly eighteen times as much energy as anaerobic activity yields. This results in faster, more aggressive remediation.

Store in cool, dry place. Shake well. Wash exposed areas thoroughly with soap and water after handling. Avoid eye contact.  
**KEEP OUT OF REACH OF CHILDREN.**