

Advanced Microbial Technology

SOS Environmental, Inc & Advanced Microbial Services is a biotechnology team employing the natural abilities of microbes and the advances in *MicroBoost™* technology to consume or transform various chemicals. The most common biodegradable waste are hydrocarbon sources such as fuel, oil, and grease (FOG) compounds, industrial waste solvents and coolants, and sludge's waste. These compounds, which produce visual, operational or disposal problems, are also food sources for bacteria under the proper conditions. Our function as bio-remediation specialist is to assist the natural process providing a solution to our customers needs.

When FOG's come in contact with soil, water, or equipment the goal can range from property restoration to waste water treatment or waste management. Applying the science of biotechnology properly through processes of nature is the key to a successful project.

SOS/AMS offices and laboratory located in Tulsa, OK provide cultivation of microbial products and nutrient additives guarantying quality control and technical support with proven results. Fresh batch cultures of our microbes are grown to a viable cell concentration of not less that 2 billion cells per milliliter or 7.5 billion per gallon. We have 116 different species in inventory. Custom microbe and nutrient blends with specific properties can be formulated to meet specific needs.

AMS-101™ is a custom blend of 28 naturally occurring aerobic microbes selected for their hydrocarbon degrading capabilities. Although they are aerobic, most organisms of these species will go into anoxic respiration in the absence of oxygen, replacing it with nitrate nitrogen if necessary. Each species is tested after it is grown to ensure desired qualities have been maintained. They are then blended into the AMS-101™ inoculation for cultivation. AMS 101™ provides a multi-species cooperative colony for the degradation of petroleum hydrocarbons, oil & grease, gasoline, diesel, fuel oil, volatile organic compounds (benzene, toluene, xylene), PAH, phenols and alcohols.

MicroBoost™ is a concentrated and stabilized nutrient package that promotes and accelerates reproduction and growth of microorganisms, shortening the time required for hydrocarbon degradation. **MicroBoost™** is a specially formulated product for bio-remediation of soils contaminated by petroleum hydrocarbons.

Bio-Remediation Services

SOS offers a full line of bio-remediation products and services including site assessments and evaluations, soil sampling and testing, remediation construction, microbe inoculation, soil amendments, site monitoring, and follow-up testing. We work directly with operators are coordinate with other environmental specialist. SOS Environmental can be a valuable member of your remediation team.



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