



ADVANCED  
MICROBIAL  
SERVICES, INC.



**AMS-101 Plus™** is a custom blend of 28 naturally occurring aerobic microbes selected from indigenous microbes at actual oil and gas production sites. Each species is tested to ensure desired qualities and their hydrocarbon degrading capabilities have been maintained. **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.** Fresh batch cultures of our microbes are grown to a viable cell concentration of not less than 2 billion cells per milliliter or 7.5 billion per gallon.

The complete metabolism may take several intermediate steps but the goal is to recycle carbon while generating energy. The energy liberated from these high energy compounds then serves to promote more enzyme production, reproduction of cells, and the maintenance needs of a viable cellular community.

**Applying the science of biotechnology properly through processes of nature is the key to a successful project.** A single microbe's species is less capable of complete hydrocarbon degradation when compared to a multi species, cooperative community provided by AMS-101 Plus™. The following compounds have been degraded by this field-proven **AMS 101 Plus™ - MicroBoost™** approach:

- Petroleum Hydrocarbons, Oil and Grease
- Gasoline, Diesel, Fuel Oil
- Volatile Organic Compounds (Benzene, Toluene, Xylene)
- PAHs (Naphthalene, Anthracene, Fluorene)
- Phenols and Alcohols

**AMS 101 PLUS™** with **MicroBoost™** provide the balanced, multi-species cooperative colony for the optimum degradation of petroleum hydrocarbons in the minimum time.

**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.

**SOS Environmental, Inc / Advanced Microbial Services** is a biotechnology team employing the natural abilities of microbes and the advances in **MicroBoost™** remediation technology



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