

## Physical Characteristics of Micro-Blaze<sup>®</sup> Emergency Liquid Spill Control

**Micro-Blaze<sup>®</sup> Emergency Liquid Spill Control** contains surfactants, nutrients and non-pathogenic bacteria. When applied to a hydrocarbon-based or organic spill or contaminant, the surfactant starts breaking down the contaminants into smaller molecules for more efficient degradation by the microbes.

### *Physical Characteristics:*

- White, opaque perfumed liquid formulation
- pH: 7.3
- Completely soluble in water
- Bacteria count: ~ 400 billion / gallon
- Contains several strains of Bacillus bacterial cultures; non-pathogenic, non-toxic; will not mutate
- Completely biodegradable
- 10-year shelf life
- Ships concentrated ready to dilute with water and use; no mixing dry powders and waiting 24 hours
- Listed with the United States Environmental Protection Agency's National Contingency Plan (U.S. EPA - NCP List) as a bioremediation effectiveness agent\*.

The microbes used in the Micro-Blaze<sup>®</sup> formulations are in a spore form. When conditions become dry, a large percentage will revert back to a spore state, and will reactivate when conditions again become favorable.

Other products normally use what is commonly called a vegetative microbe. Vegetative microbes will die off when conditions become dry and they cannot reactivate. The spores in Micro-Blaze<sup>®</sup> products can normally handle pH ranges of 4.5 to 11.5. Vegetative microbes primarily only handle pH ranges of 6.0 to 9.0.

A few of the more common contaminants that can be biodegraded and digested by **Micro-Blaze® Emergency Liquid Spill Control:**

- Petroleum products such as gasoline, diesel,
  - Motor oils, jet fuels, glycols (antifreeze compounds)
  - Organics such as greases, fats, oils
  - AFFF wastes
  - Benzene contaminated soils and water
  - BTEX contamination
  - Methyl alcohol (methanol)
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- AN (acrylonitrile)
  - Methylene chloride
  - MTBE
  - Oil based paints, inks, fluids
  - Toluene, acetone, paint sludge wastes
  - Polyurethane resins waste
  - Condensate from pipelines
  - Kerosene

\* Note: Micro-Blaze® is listed on the US EPA's NCP Product Schedule. As required by EPA regulations: "That (listing) does not mean the EPA approves, recommends, licenses, certifies, or authorizes the use of Micro-Blaze on an oil discharge. This listing means only that the data have been submitted to EPA as required by subpart J of the NCP § 300.915."