

Emergency Response Applications

Seconds count when there is a gasoline spill or a vehicle accident on a highway....

Fire departments and emergency response groups risk their lives to protect us. They deserve to have the very best products available for their protection as well as those involved in accidents. **Micro-Blaze[®] Emergency Liquid Spill Control** applied on gasoline, diesel and other volatile hydrocarbon spills takes care of the situation safely and effectively.



Micro-Blaze[®] Emergency Liquid Spill Control:

- ◆ Inerts the volatile spills
- ◆ Prevents slipping hazards
- ◆ Ships concentrated ready to dilute and use; no "mix and wait" for up to 24 hours before application onto spills, leaks
- ◆ Biodegrades the spills and leaks into harmless by-products such as CO₂ and water
- ◆ Saves time, costs for RPs (responsible parties) and government agencies
- ◆ Reduces or eliminates "cradle to grave" liabilities
- ◆ Non-toxic, non-pathogenic
- ◆ Listed with the United States Environmental Protection Agency's National Contingency Plan (U.S. EPA - NCP List) as a bioremediation effectiveness agent.*

Will the microbes eat my asphalt roadway?

No. Due to the density of the material on a road or paved surface, it would take a *very, very* long time before anything occurred. The hydrocarbons or other chemicals left on the roadway are much more cause for concern; they can pit and deteriorate the road surface quickly.

Will the microbes eat my oil reserves in the ground?

No. the microbes do not have enough oxygen or water in pure oil. They will not seep into oil holding areas and digest the oil.

Are Micro-Blaze[®] products corrosive?

No -- the pH of the products is almost neutral. The microbes work in situations where the pH can range from 4.5 to 10.5 -- a greater range of viability than with other microbial products.

What are some differences between Micro-Blaze® products and other products?

Other products usually package their surfactant and their vegetative microbes separately. You have to mix the microbes with water, and then let them sit for up to 24 hours before they can be used. This doesn't help an emergency response situation where seconds count. They also cannot be premixed ready to use because they can "spoil" and become useless. Micro-Blaze® products are shipped concentrated, ready to dilute to your specific needs and applied immediately. The microbes only take a few minutes to "awaken" and search for their food source -- your contamination problem.

What is the difference between microbial products and enzyme products?

Enzymes will liquefy a waste; it will *not* digest it. All an enzyme product will do is change the form of the waste. Microbes produce their own enzyme which helps the microbe to digest the wastes, changing it into harmless byproducts of carbon dioxide and water. You can have an enzyme product with microbes. However, without the microbes the bioremediation process cannot be completed.

On what types of compounds will Micro-Blaze® products work?

A few of the more common contaminants that can be microbially digested:

- 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)
- 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."