

Formula I - Product Data Sheet

Product Description

Formula I allows you to treat spills in place, saving time and money. The newer or fresher the spilled material the faster the remediation time.

Formula I consists of a multitude of natural communities of aerobic and microaerophilic microorganisms that have been selected from worldwide soil and water sources.

The microbes have been selected for their affinity for hydrocarbons, both biochemically and physically. These communities of microbes have the ability to effectively recycle a wide range of compounds and hydrocarbons by converting them into non-toxic compounds.

Our microbes were selected by their ability to stay with hydrocarbons. As the hydrocarbons move in soil and water, the product that break down the pollutants will move as well.

Recommended Application Method

Step1: Apply the product onto the spill to completely cover the contaminated area.

Step 2: In soil applications add water - approximately 10%. The addition of water activates the microbes in the product. If it rains after application, it's not a problem. The product will stay locked into the spilled material and will continue to work.

Step 3: Unless the spill is less than 15 cm deep, you will need to dig up or rake to mix the product and the spilled materials together. This is to ensure that the microbes come into contact with the material they are degrading. Direct contact between the contaminant and the product is important.

Note

Supplemental nutrients and oxygen may be necessary depending upon the specific project. Depending upon the starting level of total petroleum hydrocarbons you may need to reapply the product in a couple of weeks to achieve the best results.

Metals (heavy metals) will not be degraded, however, the microbes can chelate them into non-reactive forms. Chlorine is toxic to all microbes in concentrations of more than 0,5 ppm. Levels should be kept to less than 0,2 ppm. Typically, if you can smell the chlorine, its level is toxic.

Acceptable levels of hydrocarbon concentration (TPH) for best results:

- Standard hydrocarbons up to 60,000 ppm (6% by volume)
- Chemicals/pesticides - up to 1,000 ppm (0.1% by volume)
- PCB's up to 100 ppm (0.01% by volume)

Technical support

As the supplier of this product we take pride in delivering all necessary support to our clients. We believe that our success is due to the importance that we place on working with excellent products along with our technical expertise within bioremediation. Do not hesitate to contact us.

Product facts

- Concentrated gray powder
- Naturally occurring Archaea bacteria blend
- Organic and non-toxic
- Five years+ shelf life
- Hydrophobic
- Aerobic/Facultative
- Certified pathogen FREE
- Activated by fresh, salt or brackish water.
- Salinity tolerance up to 24%
- Temperature range 0°C-50°C
- pH tolerance 5.5-10.0
- Not freeze dried or GMO

Works on e.g.

- Gasoline
- Herbicides
- Pesticides
- Chlorinated solvents
- Marine Fuel
- Diesel
- Motor Oils
- Kerosene
- Heating Oils
- Hydraulic Fluids
- Grease
- Wastewater

Application Rate

In soil

150 grams of product per 1 m³.

In water (enclosed systems)

130 grams of product per 1 000 l.

Open water oil spills

500 grams per 160 l (barrel) -
if treated immediately at source.

Approximately 1,5 kg per 1 000 m²
of surface spill - if treated
immediately after the spill has
spread.