

Formula CL - Product Data Sheet

Product Description

Formula CL contains a super concentrated blend of communities of aerobic and microaerophilic microorganisms (microbes), that are blended into a dense absorbent powder. Our microbes are chosen for their affinity to degrade for chlorinated hydrocarbons molecules, both biochemically and physically.

Our proprietary mixture contains single cells ranging in size from 1 to 10 microns. These microbes have been selected from worldwide natural soil and water sources, (including those bacteria in the Domain Archaea). They are not genetically altered or modified in any way.

Chlorinated hydrocarbons are organic molecules characterized by the presence of at least one chlorine atom bonded to a carbon atom. Compounds which contain these molecules have a wide range of uses, from making cookware to creating industrial solvents. Examples include trichloroethylene (TCE) and Perchloroethylene (PERC).

The Oppenheimer Formula CL can be effectively used in a range of environments to treat crude oil, fuels, oil field waste, as a soil amendment, wastewater treatment, and chlorinated compounds in water and soils.

Recommended Application Method

Step 1: 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.

All microbes require four essential items:

1. Oxygen - 1 ppm
2. Inorganic nutrients
3. Water - fresh, salt or brackish
4. Must come in contact with contaminate

About Archaea

Inspired by nature's own method to clean up contaminated land and water, we use Archaea to clean up oil-spills on site. Archaea were on earth within 1 billion years of Earth forming. Earth was very hot, lots of methane and ammonia. Toxic for life today, but just right for Archaea.

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.

- Chlorinated solvents
- Crude Oil
- Gasoline
- Herbicides
- Pesticides
- Marine Fuel
- Diesel
- Motor Oils
- Kerosene
- Heating Oils
- Wet/Dry Waste Drill Cuttings

Application Rate

In soil

150 grams of product per 1 m³.

In water (enclosed systems)

130 grams of product per 1 000 l.

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.