



SpillAway+TM Brands

HC-100TM

MICROBIAL HYDROCARBON REMEDIATION FORMULA

PRODUCT OVERVIEW

HC-100TM is our professional product for the bio-remediation of deep soil and ground water hydrocarbon contamination. This formula was developed to help solve contamination situations that demand minimal disruption to surrounding environments while maintaining economic feasibility. **HC-100TM** affords you the ability to reach deep into contaminated areas, perform *in-situ bio-remediation*, realize dramatic material & labor savings and accomplish remediation goals in a short period. **HC-100TM** is a blend of naturally occurring, live synergistic micro-organisms that are chosen for their exceptional ability to bio-remediate hydrocarbons rapidly. **SpillAway+ Brands** can custom blend this product for your specific needs and unique contamination problems.

HOW TO USE THIS PRODUCT

HC-100TM is highly concentrated. This product must be mixed in a 10:1 ratio with water. Changing this mixing ratio is generally not recommended. Each mixed gallon of **HC-100TM** will remediate 1 cubic yard of soil or approximately 200 gallons of water.

The following is the general procedure for using this product.

- Determine the area that is contaminated. This can be done by multiplying the length x width x depth in ft.. Then divide by 27 to determine cubic yards.
- After you have determined the above, plot-out a "matrix" approximately every 3-10 feet on the surface area, depending on soil density.
- This matrix will be the drilling points for the "Injection Wells" for the **HC-100TM**.
- Drill the "Injection Wells" to a depth that is approximately 1 foot above the deepest point of contamination. Cap the bottom & insert 2" PVC pipe to this depth. This pipe should be "slotted-screened" pipe, generally found at "well supply companies". It is at these sections that the **HC-100TM** will enter the sub-surface of the terrain. If you are going to inject directly into ground water "pools", please consult the factory.
- Mix the **HC-100TM** at the 10:1 ratio in sufficient quantity to fill all of the well pipes, from top to bottom.
- Fill each pipe with the mixture and put a temporary "cap" on each.
- If possible, insert a 1/4" plastic air tube, through the cap, to the bottom of the pipe.
- Connect all of the air tubes to a central compressor at a pressure of approximately 5-8 lbs. PSI. This air will help to accelerate the bio-remedial process.
- The pipes should be checked for liquid content after 7 days. Keep the pipe filled with **HC-100TM** for 2 weeks. Add mixture to maintain this level as needed.
- In approximately 30-45 days there will be significant reductions in the contamination levels.
- Test the site as dictated by local or managing authority requirements.
- CALL YOUR DISTRIBUTOR FOR ANY QUESTIONS YOU MAY HAVE ABOUT THE ABOVE PROCEDURES.

FOR OPTIMUM EFFECTIVENESS, A WATER TEMPERATURE BETWEEN 60° F. AND 90° F. SHOULD BE MAINTAINED. DO NOT EXCEED A WATER TEMPERATURE OF 120° F.

APPLICATIONS

The following is a partial list of the hydrocarbons that **HC-100TM** can remediate. Please contact **SpillAway+ BrandsTM** if you have any questions about its usage:

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| • DIESEL FUEL | • MINERAL SPIRITS | • ALCOHOL | • ORGANIC PESTICIDES |
| • HEATING OIL | • MOTOR OIL | • NAPHTHALENE | • ORGANIC HERBICIDES |
| • GASOLINE | • AROMATICS | • CRUDE OIL | • TRANSMISSION FLUID |
| • BENZENE | • ETHYLBENZENE | • TOLUENE | • XYLENE |
| • PARAFFIN | • JET FUEL | • KEROSENE | • ORGANIC SOLVENTS |
| • LUBRICATING OIL | • CUTTING OILS | • SOLVENTS | • GREASE |
| • PAINT THINNERS | • GLYCOLS | • ANTI-FREEZE | • TARS |

TECHNICAL INFORMATION

HC-100TM is an active mixture of hydrocarbon-oxidizing, naturally occurring, single-celled micro-organisms and water. It is specially formulated to be safe, environmentally enhancing and effective.

PHYSICAL PROPERTIES:	
Appearance:	Clear Liquid
Odor:	Organic
Boiling Point:	212° F.
Soluble in Water:	Complete
pH Concentrate:	6.9 to 7.2
pH Diluted:	6.9 to 7.5
Evaporation Rate:	Same as Water

PRODUCT EFFECTIVENESS: The effectiveness of this product and the "speed" at which it works is determined by certain factors. In general these factors are as follows:
TEMPERATURE: The warmer the temperature, the faster this product will work. The effective operating temperature is between 42° F. & 120° F.
AERATION & PRESSURE: Aeration (air hose or "bubbler") & pressure speeds the process.
TYPE OF HYDROCARBON: Some hydrocarbons take longer than others.
The bio-remedial process generally will begin immediately but may take longer to complete depending on the above factors.

PACKAGING INFORMATION

5 GALLON "CUBITAINERS"
 SHIPPING: 36 UNITS PER SKID BULK PACKAGING AVAILABLE