

SpillAway+™ Brands

Liquid Remediate™

MICROBIAL HYDROCARBON REMEDIATION FORMULA



PRODUCT OVERVIEW

Liquid Remediate™ is a newly developed product that was created to solve soil & water hydrocarbon contamination problems. This product has the ability to bio-remediate most hydrocarbons with a minimum amount of equipment, labor and cost. What sets *Liquid Remediate™* apart from all other products is the high concentration of live synergistic bacteria, in a remediation liquid, that quickly starts the bio-remediation process. Because of its relatively low cost, *Liquid Remediate™* is the ideal solution for most industries to solve their own hydrocarbon contamination problems.

HOW TO USE THIS PRODUCT

Liquid Remediate™ is highly concentrated. This product must be mixed in a 10:1 ratio with water. Changing this mixing ratio is not recommended. Each mixed gallon of *Liquid Remediate™* 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 *Liquid Remediate™*.
- Drill the "Injection Wells" to a depth that is approximately 1-2 feet above the deepest point of contamination. Insert 2" PVC pipe to this depth and cap the bottom. This pipe should be "slotted-screened" pipe, generally found at "well supply companies". It is at these sections that the *Liquid Remediate™* 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 *Liquid Remediate™* 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 1/2" 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. The liquid level should be maintained above the first slotted section 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.

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 *Liquid Remediate™* can remediate. Please contact *SpillAway+ Brands™*, if you have any questions about its usage:

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

TECHNICAL INFORMATION

Liquid Remediate™ is an active mixture of hydrocarbon-oxidizing, naturally occurring, single-celled micro-organisms with a "bio-surface cleaning agent" and water. It is specially formulated to be safe, environmentally enhancing and effective.

PHYSICAL PROPERTIES:

Appearance: Clear Liquid
Odor: Orange Citrus
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

1 GALLON "CUBITAINERS" (4 per Case) • 5 GALLON "CUBITAINERS"
SHIPPING: 36 UNITS PER SKID BULK PACKAGING AVAILABLE