



HENCO Environmental Clean-up

A powerful resolution for the remediation of spills, maintenance cleaning and operations for:

Environmental Clean-up - Oil Industry - Gas Industry - Mining Industry





Description and Method

HENCO Environmental Clean-up is comprised of bioactive stress proteins processed to form tight complexes with surfactants. The synergistic effect on the surfactants creates the power behind the technology of Protein-Surfactant Complex or PSC.

HENCO Environmental Clean-up product is cell free, does not contain any bacteria and is not based on any particular enzymes.

As there are two components working in synergy, so there are two sets of fundamental effects:

- The effectiveness of the surfactant is greatly enhanced by the protein.
- Reduces the amount of surfactant needed.
- **HENCO Environmental Clean-up** dramatically outperforms many harsh cleaners

HENCO Environmental Clean-up is stable and functional at temperatures in excess of 200° Fahrenheit and retains activity in a broad range of pH 1 to pH13. It is also compatible with some strong oxidants such as Hydrogen Peroxide (over 15%) or Hypochlorite Bleach.





Description and Method

In addition to changing the surface tension, interfacial tension and critical micelle concentration, (up to 2 logs) of many other surfactants, HENCO **Environmental Clean-up** also converts oils and greases into additional surfactants therefore multiplying the beneficial effects of the product.

HENCO **Environmental Clean-up** induces bacterial metabolism to accelerate the breakdown of by oxidation (digestion) of organic materials such as fats, oils, greases, diesel, crude, etc. These contaminants are digested more rapidly and completely into carbon dioxide and water. This is all achieved using the natural resident bacteria (microbes) present in the environment. As previously stated HENCO **Environmental Clean-up** contains no added bacteria and produces this biological effect known as the 'uncoupling of oxidative phosphorylation'.

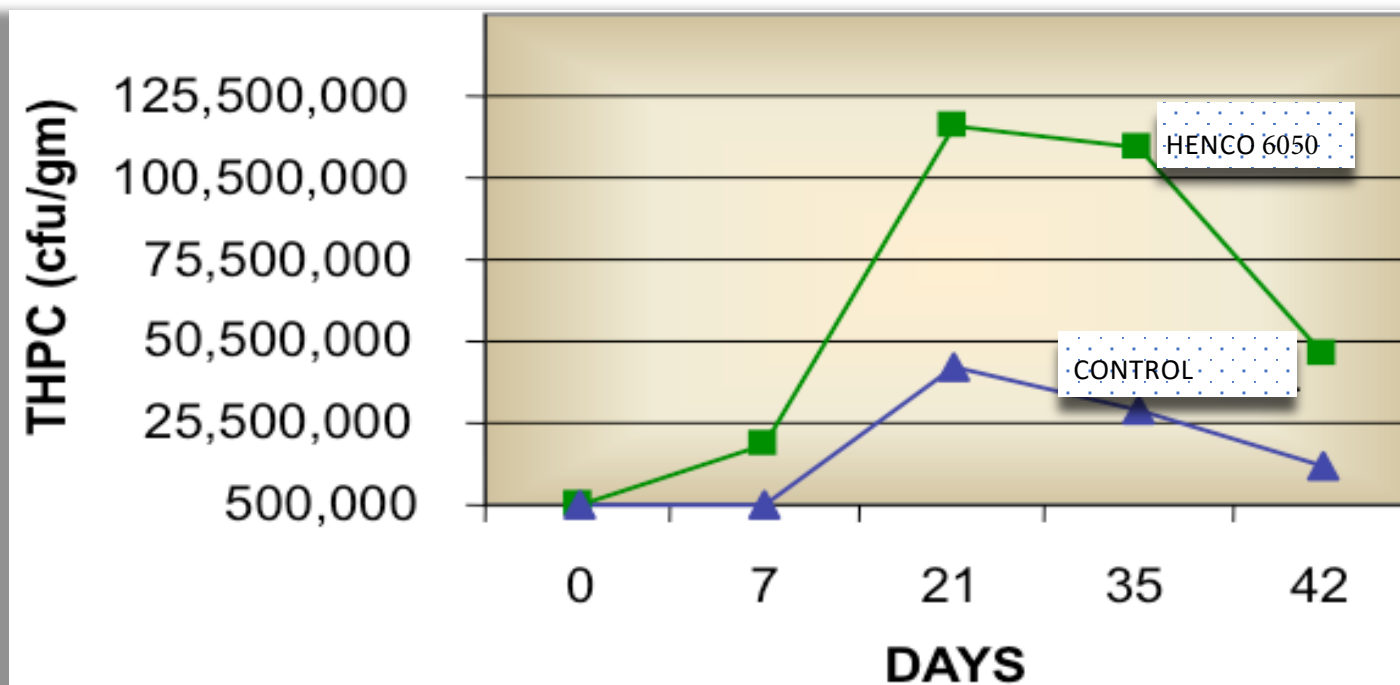
This biological phenomenon causes no disruption to ecosystems and as HENCO **Environmental Clean-up** is highly biodegradable there is no accumulation in the environment in which it is used.

HENCO Environmental Clean-up is a very effective, safe and inexpensive solution to a very difficult problem. It allows elimination of collateral costs and resolves your problem quickly with minimal effort.





Description and Method



Bacteria Proliferation

The Control shows normal active cycle of bacterial bloom.

HENCO Environmental Clean-up demonstrates phenomenal increase in bloom rate.

THPC (cfu/gm) is the reference given to the colony count of bacteria.





Description and Method

Water Contamination

Surface Washing Agent

- Immediately disperses oil without sinking.
- Causes naturally occurring bacteria to 'bloom' at a 100 times the normal rate, greatly increasing breakdown activity.
- Up to 70% Cost Saving on Water Clean Up (Less Labor, Equipment and Materials used) EPA and IMO Approved for zero ecological impact.

Deep Water Dispersant

- Ability to be applied below the water surface and obtain the same effect.
- Direct use for 'Below Surface' Oil Spills.



Pre-Treatment



Post-Treatment



Description and Method

HENCO Environmental Clean-up Deep Water
Dispersant incorporates a unique patented technology that amplifies the ability of surfactants to penetrate, lift, and clean contaminants from surfaces faster and more efficiently than other surfactants or traditional cleaners that depend on solvents and caustic chemicals to achieve their cleaning power.





Description and Method

TECHNICAL:

- Does not depend on solvents or caustics pH neutral
- Stimulates biodegradation of residuals of oils in water/soil/sand
- No hazardous polymerization
- Non-flammable
- Readily biodegradable

OPERATIONAL:

- Safe for worker and environment
- Suitable for aerial spraying
- Suitable for sub-freezing application
- FDA, USDA certified
- US Coast Guard approved
- EPA listed (NCPPS)

FINANCIAL:

- Fast working, saves up project time
- Low product use
- Significant chemical cost reduction
- No cost for recoating or repainting surfaces





Description and Method

Safety

- HENCO **Environmental Clean-up** is pH Neutral, Non-Toxic and fully Bio-Degradable
- Requires NO additional Ventilation, Respiration mask or Special Safety Equipment
- Safe for the User, the Environment and Marine Life



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