

HEAVY DUTY RIG & EQUIPMENT CLEANER



Oil field equipment such as work-over rigs, coiled tubing, wire-line and pumping units and even hand tools become fouled with crude oil, chemicals and other difficult to clean liquids and solutions just from repeated use. All of these surfaces must be cleaned periodically:

- To maintain optimum operational performance,
- To avoid maintenance issues,
- To reduce safety concerns,
- And in some cases, for aesthetic purposes.

Traditional means of cleaning include caustic cleaners, solvents (including diesel) and steam, but these methods often create other issues such as increased safety concerns, a greater environmental hazard, additional labor costs, and they are often not as effective as needed.

ZenEarth's Heavy Duty Rig & Equipment Cleaner replaces the need for the many chemical products and steam processes with just one simple solution that includes solvents, surfactants and other cleaning agents. All ingredients are readily biodegradable; plant based materials and offers a host of additional benefits including:

- Proprietary formulation easily lifts dirt, crude oil and other petroleum derived products from all surfaces and leaves no dangerous residues or scum behind.
- The micelle process degrades long chain molecules and cuts hydrogen bonds to make the now short chain hydrocarbons easily digestible to bacteria. 99% of the contaminants will have completely disappeared in less than 30 days which removes the need to collect and dispose of runoff or rinse water.
- In addition to being an extremely effective cleaner, Heavy Duty Rig & Equipment cleaner encapsulates and suppresses volatile organic compounds (VOC's) which enhances worker safety.
- Can be used in fresh or salt water or brine.
- Use a brush, mop, pressure or steam washer.



ZEN EARTH PRODUCTS ARE:

Bio - Based

Readily Biodegradable

Non - Toxic

Non - Corrosive

Non - Hazardous

Non - Caustic

Non - Flammable

Non - Cancer Causing

DO NOT CONTAIN:

**Ozone Depleting
Substances**

Petroleum Distillates

Glycol Ethers

Caustics

**California Proposition
65 Chemicals**

The active ingredients behind all "green" ZenEarth cleaning, solvent and lubricating products are combinations of various readily biodegradable plants and naturally occurring minerals. ZenEarth's proprietary, renewable, chemical/mechanical process creates a truly unique product that is safe for human use and for the environment. It is effective and versatile.

All ZenEarth active ingredient formulas are effective as a result of the creation of electrically charged particles known as micelle. When activated in water, micelles repel each other in a ceaseless random movement. Measuring only 2 – 4 nanometers in size, their extreme surface-area-to-volume ratio enables far greater efficacy than conventional technologies or formulas. Micelles do not produce a chemical reaction that generates new compounds when introduced into another material or the environment, instead they break down carbon based compounds into smaller particles that can be easily assimilated and metabolized by normal soil or water microorganisms.