



## Hazard Control Technologies, Inc.

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### OVER THE ROAD TANK DEGASSING, DECONTAMINATION AND CLEANING

HydroLock™ is a unique encapsulator agent formulation that renders flammable liquids and vapors inert. In addition, it also emulsifies hydrocarbon sludge and residue.

HydroLock in solution with water seeks out and surrounds various forms of hydrocarbons and forms a molecular bond around the hydrocarbon molecule. These encapsulated flammable liquids and vapors are reduced to an LEL of zero. HydroLock is batch mixed or proportioned into the water supply and may be sprayed, steamed, circulated, or left to stand in the vessel.



### Why Use Hazard Control Technologies' HydroLock degassing, cleaning and encapsulating agent?

#### SAFETY

- Ability to encapsulate hydrocarbon liquids and vapors and reduce the flash point (LEL/VOC)
- Nontoxic, noncorrosive, nonhazardous, 100% biodegradable and non skin-sensitizing
- Mitigates Benzene, E-85, E-10, H<sub>2</sub>S and Pyrophoric Iron concerns

#### ECONOMICS

- Reduces cleaning project's duration; contractors can complete more projects and owners get higher utilization from their tankers
- Reduces steam-out time, allows quick vessel entry and facilitates sludge breakdown and removal
- Ability to be merged into shutdown operations, minimizing turnaround time and reducing cost
- The HydroLock addition to sludge creates a slurry that allows for easy removal

#### ENVIRONMENTAL

- HydroLock and its ingredients were found to comply with CEPA 1999 and are specifically listed for use in soil washing, explosive gas devaporization and removing oils and sludge from equipment and piping

CEPA 1999 listing does NOT mean that CEPA approves, recommends, licenses, certifies or authorizes the use of HydroLock



**HydroLock** is packaged:

- 5-Gallon Pails
- 55-Gallon Drums
- 250 or 275-Gallon Totes

For More Information Contact:

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### Tank Degassing / Vapor Suppression & Encapsulation

HydroLock provides the dual action of emulsification and encapsulation, making it ideal for degassing and cleaning tanks, vessels and equipment prior to entry, welding or other hot work. When applied as directed, this product rapidly reduces LEL levels and keeps them down while the work progresses. HydroLock allows same-day access to the tank, increasing productivity and reducing downtime, safely.

### Tank Cleaning with HydroLock

- *Cuts through films and sludge*
- *Emulsifies fuels and oils*
- *Encapsulates vapor release to zero LEL*
- *Safe and easy to use*
- *Will not damage equipment*
- *Accelerates natural remediation*



### Over the Road Tanks

OTR tank degassing, vapor mitigation and cleaning circulates a HydroLock solution at a targeted temperature (not to exceed 180°F through all equipment and piping). This allows you to reduce Benzene to less than 1 ppm and H<sub>2</sub>S and LEL levels to zero, while removing potentially caked-on deposits and sludge. The effluent is nonflammable and noncombustible wastewater that can now be safely transported to the waste site.

### Spray Application

This process enables the quickest possible entry into the contaminated work area. A 3% sprayed HydroLock solution contacts all surfaces of the interior tank and plumbing which penetrates into the walls to remove deep-seated hydrocarbons for complete cleaning, while immediately reducing LEL levels. This method is faster than steaming, prevents “baking-on” material, reduces the amount of waste and minimizes the need for circulation pumps.

### Washing External Surfaces

HydroLock dissolves and removes heavy hydrocarbon deposits from external surfaces. Personnel can work in a safer environment and eliminate concerns over low flash point solvents and degreasers. HydroLock is premixed with water at 3% in the high pressure washer holding tank. Product can be applied directly to the exterior of the tank, using a scrub brush to remove deposits and then rinsed.

- Easy Application - just spray, wipe, brush or splash; then rinse.
- Quick Penetration - softens before it dissolves to remove thick accumulations quickly
- Washes Clean with Water - leaves no film residue
- Safe - nontoxic, non skin-sensitizing and 100% biodegradable