



Hazard Control Technologies, Inc.

150 Walter Way
Fayetteville, GA 30214
(770) 719-5112
Fax (770) 719-5117
www.hct-world.com

ABOVE GROUND STORAGE 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, H₂S and Pyrophoric Iron concerns

ECONOMICS

- Reduces cleaning project's duration; contractors can complete more projects and owners get higher utilization from their tanks, vessels and personnel
- 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
- A 3% addition to sludge creates a slurry that allows for easy removal that's nonflammable, noncombustable and safe to transport to the waste site.

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 sludges 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 and 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

Before



After



Circulation Application

For vessel and pipe decontamination, circulate a HydroLock solution at targeted temperature through all equipment and piping. This allows you to reduce Benzene to less than 1 ppm, and H₂S and LEL levels to near zero, while removing oils and sludge from equipment and piping. By wetting the solids and walls, HydroLock goes to work emulsifying oil and sludge so that it can be removed from the system and recovered.

Spray Application

This process enables the quickest possible entry into the contaminated work area. A sprayed HydroLock solution contacts all surfaces of the process equipment and penetrates into the walls to remove deep-seated hydrocarbons for complete cleaning. 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. The solution is circulated through the heating coils and discharged at standard pressures.

- 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