



ENVIRO HAZMAT™ Emergency Response

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COVID-19 DECONTAMINATION SERVICES



Decontamination of Pathogens

Enviro Hazmat Emergency Response Inc. has been an active emergency and scheduled response organization since 1993, specializing in hazardous materials responses, responding to all forms of chemicals and bio-hazards. Enviro Hazmat's vast experience and ever evolving systems approach to all incident conditions has led to a successful track record that is unparalleled in the Hazmat industry. As COVID-19 has been gaining traction, the fight or flight approach by many organizations have become the focus in the market.

As a result, **Enviro Hazmat Emergency Response Inc.** has taken flight and applied the same proven methodologies in decontamination protocols as per any other successful Hazmat Incident mitigation process. To date, a multitude of existing clients and NEW organizations have reached out for assistance and **Enviro Hazmat Emergency Response Inc.** has stepped up to the plate with the *Rapid COVID-19 Decontamination System (RCDS)* approach for small and large facilities.

Decontamination of Process

Enviro Hazmat Emergency Response Inc. employs a direct method of efficiently disinfecting surfaces by turning its attention to utilizing a hydraulic pressure to atomize the decontamination fluid. This is conducted by pumping the decontamination fluid at high pressure through a small orifice, known as atomization. As the fluid is released at these high pressures, it is separated into small droplets, resulting in a finely atomized spray. The fluid is discharged at such a high velocity that it tears itself apart and sufficient momentum remains to carry the minute particles to the contaminated surface.

That time allows the chemical to bond to any pathogen and either kill surface bacteria or deactivate (virus). "The time the chemical is left alone on the surface is called wet time," "In the time that it bonds to the micro-organisms on surfaces.

This is a very effective system to deploy as a mist to disinfectant all surface areas. There is a suggested re-entry time of 60 minutes.



Enviro Hazmat Emergency Response Inc. is aware that individual organizations are responsible for daily disinfecting of their facilities but may be overwhelmed with the demands placed on their staff for high traffic areas every day.

Enviro Hazmat Emergency Response Inc. can provide the rapid response to decontaminate the sites with the *RCDS* approach. Examples of facilities and surfaces that can be decontaminated;

Basic Pathogen Knowledge Review

All a pathogen needs to thrive and survive is a host. Once the pathogen sets itself up in a host's body, it manages to avoid the body's immune responses and uses the body's resources to replicate before exiting and spreading to a new host.

Coronaviruses are pathogens that are enveloped viruses with a positive sense, single-stranded RNA genome. COVID-19 particles are spherical and have proteins called spikes protruding from their surface. These spikes latch onto human cells and then undergo a structural change that allows the viral membrane to fuse with the cell membrane. The viral genes can then enter the host cell to be copied, producing more viruses.

COVID can infect humans and cause disease to varying degrees, from upper respiratory tract infections (URTIs) resembling the common cold, to lower respiratory tract infections (LRTIs) such as bronchitis, pneumonia, and even severe acute respiratory syndrome. The coronavirus is spread through sustained contact with "viral droplets" from an infected person's coughs or sneezes.

How Pathogens Are Transmitted

Pathogens can be transmitted a few ways depending on the type. They can be spread through skin contact, bodily fluids, airborne particles, contact with feces, and touching a surface touched by an infected person. It is not yet known how long the virus causing COVID-19 lives on surfaces, however, early evidence suggests it can live on objects and surfaces from a few hours to days within facilities where coronavirus (COVID-19) is suspected to be present.

Surfaces that are frequently touched with hands are most likely to be contaminated. These include doorknobs, handrails, elevator buttons, light switches, cabinet handles, faucet handles, tables, countertops and electronics.

- Common areas within public facilities
- Warehouses
- Manufacturing facilities
- Food manufacturing facilities
- Commercial operations
- Transportation industry
- Multitude of other industries



Enviro Hazmat Emergency Response Inc. shares the same goal as you, to reduce the risk of infections and reduce or eliminate the pathways of pathogen organisms

