



## TECHNICAL BULLETIN: EBOLA

### DISINFECTION OF ENVIRONMENTAL SURFACES EXPOSED TO PATIENTS WITH SUSPECTED OR CONFIRMED EBOLA VIRUS DISEASE (EVD)

ShockWave from Fiberlock is the brand professionals employ with confidence when specialized environmental cleaning is vital to restore healthy conditions in homes, workspaces, and public places. Each of the Shockwave products are hospital-grade disinfectants, and all are each EPA-registered as a broad spectrum virucide, bactericide, and fungicide. ShockWave Ready-To-Use (RTU), ShockWave Concentrate, and the new ShockWave Hydrogen Peroxide, also each satisfy the current recommendations of the U.S. Centers for Disease Control (CDC) for the disinfection of environmental surfaces in the rooms of patients with suspected or confirmed disease caused by the Ebola virus.

The 2014 Ebola outbreak in West African nations, compounded by reports of infection in the U.S., has generated widespread concern and high interest in environmental controls that would be integral to reducing the possibility of an outbreak. The CDC released guidance that includes information regarding the importance of surface cleaning and disinfection on August 1, 2014 in a document entitled [Infection Prevention and Control Recommendations for Hospitalized Patients with Known or Suspected Ebola Hemorrhagic Fever in U.S. Hospitals](#). On the viability of the Ebola Virus outside the body, and therefore crucial value of disinfection, CDC instructs:

#### ***How long does the Ebola virus persist in indoor environments?***

*Only one laboratory study, which was done under environmental conditions that favor virus persistence, has been reported. This study found that under these ideal conditions Ebola virus could remain active for up to six days.<sup>1</sup> In a follow up study, Ebola virus was found, relative to other enveloped viruses, to be quite sensitive to inactivation by ultraviolet light and drying; yet sub-populations did persist in organic debris....Based upon these data and what is known regarding the environmental infection control of other enveloped RNA viruses, the expectation is with consistent daily cleaning and disinfection practices in U.S. hospitals that the persistence of Ebola virus in the patient care environment would be short – with 24 hours considered a cautious upper limit.*

The CDC also provides the following guidance on selecting a disinfectant:

***Use a U.S. Environmental Protection Agency (EPA)-registered hospital disinfectant with a label claim for a non-enveloped virus (e.g., norovirus, rotavirus, adenovirus, poliovirus) to disinfect environmental surfaces in rooms of patients with suspected or confirmed Ebola virus infection.***

*Although there are no products with specific label claims against the Ebola virus, enveloped viruses such as Ebola are susceptible to a broad range of hospital disinfectants used to disinfect hard, non-porous surfaces. In contrast, non-enveloped viruses are more resistant to disinfectants. As a precaution, selection of a disinfectant product with a higher potency than what is normally required for an enveloped virus is being recommended at this time. EPA-registered hospital disinfectants with label claims against non-enveloped viruses (e.g., norovirus, rotavirus, adenovirus, poliovirus) are broadly antiviral and capable of inactivating both enveloped and non-enveloped viruses.*



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The following tables correlate the CDC recommendations and the currently EPA-registered acceptable uses that are relevant to disinfection on environmental surfaces approved on each ShockWave product's label:

| CDC Recommendation               | ShockWave RTU<br>(8316-1, 8316-5) | ShockWave Concentrate<br>(8310-1, 8311-10oz) | ShockWave Hydrogen Peroxide<br>(8318-1) |
|----------------------------------|-----------------------------------|--|---|
| USEPA Registered                 | ✓                                 | ✓  | ✓                                       |
| Registered Hospital Disinfectant | ✓                                 | ✓  | ✓                                       |

### EPA Registrations for Specific Non-Enveloped Virus Types as Recommended by CDC (contact time)

|            |                  |                  |                 |
|------------|------------------|------------------|-----------------|
| Norovirus  | ✓<br>(10 minute) | ✓<br>(10 minute) | ✓<br>(1 minute) |
| Rotavirus  | ✓<br>(10 minute) | ✓<br>(10 minute) | ✓<br>(1 minute) |
| Adenovirus | ✓<br>(10 minute) | ✓<br>(10 minute) | ✓<br>(1 minute) |
| Poliovirus | ✓<br>(10 minute) | ✓<br>(10 minute) | ✓<br>(1 minute) |

**All of the Fiberlock ShockWave brand disinfectant formulations satisfy all current guidance concerning infection control regarding the Ebola virus.**

For more information, please contact your Fiberlock Area Manager by calling 800-342-3755 or visit [www.fiberlock.com](http://www.fiberlock.com).