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OE Nano Inc., a multi-surface protection, disinfectant, and water remediation product developer and distributor, has conducted research over the last year into the verification of a practical application program, focusing on improving biosecurity and infection control in the hog industry. The products and protocols that were selected and developed will also benefit many other types of protein producers at all stages of production, transportation and processing. These protocols are also adaptable to the prevention or handling of human diseases during disasters or epidemics. Even if the system is not involved with prevention measures it can be employed to remediate a farm animal or human disease outbreak with the assistance of qualified installers and environmental cleanup specialists. * (See Clean Harbors below)

An integral component of this new bio security program is the application of our state-of-the-art **NANO-TECHNOLOGY COATINGS** to hard surfaces to make them hydrophobic as well as reduce the adhesion of grease and oil. A nano-coated surface is much easier to clean, requiring far less labour and water than an uncoated surface does to clean. A nano-coating on a surface acts as a protective layer that inhibits the growth of microorganisms by making the surface unattractive for bio material adhesion.

In our research to provide optimum surface adhesion of our nano-coatings we discovered that stubborn biofilms (protective protein shields created by bacteria colonies) were not being removed from farm related surfaces during most wash down and disinfection procedures. The biofilm is very resilient against most detergents, acids, and disinfectants. The bacteria and cohabitating viruses beneath a biofilm can be up to a 1000 times more resistant to disinfection products because they are not fully contacted by disinfectants. As a result of these findings, we have also brought an ultra-concentrated enzymatic cleaner to the market to address biofilms as part of our biosecurity protocol.

* Clean Harbors

Since its inception in 1980, Clean Harbors has become the leading environmental and industrial service provider and largest hazardous waste disposal company in North America.

Today, Clean Harbors has more than 400 service locations providing waste transportation and disposal, laboratory chemical packing, 24-hour emergency response, parts cleaning, and field, energy and industrial services. The Company owns and operates over 50 waste management facilities offering a wide range of disposal options including incineration, wastewater treatment, and landfill, recycling and specialty disposal. Clean Harbors is the largest hazardous waste disposal company and the largest re-refiner of used oil in North America.

