

MITIGATION - SCIENCE AND TECHNOLOGY ADVANCES FOR CHEMICAL AND BIOLOGICAL HAZARD MITIGATION

Decontamination Efficacy Testing for CWA Mitigation

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The use of decontamination products is something nearly everyone is familiar with, from hand sanitizer to household bleach the stores are stocked with multiple choices for consumers to choose from. There are many different types of decontamination products on the market, formulated for specific types of chemicals. Still, there is and likely forever will be a need for the development of new decontamination products for emerging threats. The evaluation of decontamination products for toxic chemicals is approached by considering multiple factors, such as surface type, application of the surface to be decontaminated, application of target chemicals, application method of decontamination product, resonance times, and other factors. MRIGlobal performs studies for the decontamination of toxic chemicals, including nerve agents, blister agents, Fentanyl and Fentanyl analogs, and other drugs of abuse. Decontamination products can be applied by spray, wipe, and powder application. Each decontamination type requires control measures to accurately determine the effectiveness of the product. Positive controls are made of the sample matrix including the target chemical but without the presence of the decontamination product; while negative controls are made of the sample matrix including the decontamination product but without the presence of the target chemical.