



## Technical Bulletin for North American Region – April 2020

**The following information is a guide for Cleaning and Disinfecting Pureflo ESM+ and PF3000 Series Powered Air Purifying Respirator Assemblies following Potential Exposure to Coronaviruses.**

**The CDC defines cleaning and disinfecting as follows:**

**Cleaning** refers to the removal of germs, dirt, and impurities from surfaces. Cleaning does not kill germs, but by removing them, it lowers their numbers and the risk of spreading infection.

**Disinfecting** refers to using chemicals to kill germs on surfaces. This process does not necessarily clean dirty surfaces or remove germs, but by killing germs on a surface after cleaning, it can further lower the risk of spreading infection.

As per CDC guidelines for disinfection, diluted household bleach solutions, alcohol solutions with at least 70% alcohol, and most common EPA-registered household disinfectants should be effective to disinfect exterior surfaces.

Products with EPA-approved emerging viral pathogens claims are expected to be effective against COVID-19 based on data for harder to kill viruses. Follow the manufacturer's instructions for all cleaning and disinfection products (e.g., concentration, application method and contact time, etc.). From this list, <https://www.americanchemistry.com/Novel-Coronavirus-Fighting-Products-List.pdf>, diluted hydrogen peroxide or sodium hypochlorite (house-hold bleach) can be used to disinfect the outer surfaces of the Pureflo Respirators when used with a soft damp cloth or cleaning wipe.

To ensure there is no damage caused to the ESM+ or PF3000 series respirators please ensure that the manufacturer's instructions for cleaning agents are adhered to. As a guide to avoid any long-term degradation to the construction of the Pureflo respirators, it is advised that any Hydrogen Peroxide solution should be no greater than 3% by volume.

**For all other cleaning regimes please follow the guide lines as set out in the user manuals.**

### **Cleaning Guidelines for DuPont™ Tychem® garments for COVID-19**

**The following advice is offered with respect to the cleaning of the Tychem QC used with the PF3000-P unit.**

COVID-19 is a biological viral contaminate, therefore, causing surface contamination; consequently, the exterior of Tychem® garments are able to be cleaned, disinfected and reused a limited number of times for COVID-19 applications.

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- For cleaning use warm water, mild dishwashing liquid and a soft brush to remove any dirt from exterior surfaces.

- As per CDC guidelines for disinfection, diluted household bleach solutions, alcohol solutions with at least 70% alcohol, and most common EPA-registered household disinfectants should be effective to disinfect exterior surfaces.
- [Products with EPA-approved emerging viral pathogens claims](#) are expected to be effective against COVID-19 based on data for harder to kill viruses. Follow the manufacturer's instructions for all cleaning and disinfection products (e.g., concentration, application method and contact time, etc.). From this list, diluted hydrogen peroxide or sodium hypochlorite (house-hold bleach) can be used to disinfect Tychem® garments.
- Thoroughly rinse the garments with clean, fresh water and allow to air-dry.

If the interior of the garment is suspected of being contaminated, DO NOT attempt to clean, disinfect and reuse the garment; handle and dispose of the garment according to all applicable regulations.

**(\*) NOTE:** In the absence of data, DuPont is unable to provide guidance on the number of times a garment can be safely reused. It is the responsibility of the safety professional in charge to determine that a garment can be safely reused.

**You assume all risks and liabilities associated with the use of this product and you are responsible for evaluation of this product and its documentation (including test data) prior to use to determine whether it is suitable for your intended use. Gentex Corporation expressly disclaims all warranties, including the implied warranties of merchantability and fitness for a particular purpose, relating to the products and information (including test data) detailed herein or provided to you relating to any matter whatsoever, but including and not limited to in preventing the spread and/or contraction of coronavirus. Gentex Corporation will not be liable for any loss or damage arising from any information contained herein or associated with this product, whether direct, indirect, special, incidental or consequential, regardless of the legal or equitable theory asserted, including warranty, contract, negligence or strict liability, even if advised of the possibility of such damages. It is further the sole responsibility of the user to determine the suitability of any disinfectant product for use with Gentex Corporation's products.**

**April 2020**