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Engineered Nanomaterials: Potential Health Risks and Performance of Respiratory Protection Devices

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Engineered nanomaterials are the key to advancements in a wide variety of technologies, from drug delivery to ballistics, due to changes in physical properties as one dimension of the material approaches 100 nm. However, the material properties that make engineered nanomaterials unique also pose unique health effects to workers involved in their manufacture and use. This presentation will discuss the health hazards of engineered nanomaterials and review current nanoparticle filtration research, including respirator selection recommendations.