Before the Connecticut General Assembly Committee on Children

in support of HB 5329 An act concerning toxic flame retardant chemicals in children’s products and upholstered residential furniture

March 6, 2018

Senator Moore, Senator Suzio, Representative Urban, and members of the Committee on Children. My name is Pamela Puchalski and I am the Project Coordinator for the Connecticut Council on Occupational Safety and Health, a labor affiliated organization which focuses on health and safety in the workplace. I come before you today to ask that you support HB 5329 An act concerning toxic flame retardant chemicals in children’s products and upholstered residential furniture.

Flame retardant chemicals generally and organohalogen flame retardants specifically were created to retard flames in various manmade synthetic materials such as polyurethane foam because these manmade materials ignite and burn much more rapidly than natural materials. Although tests revealed that products made of these synthetic materials containing the flame retardants delayed ignition by a few seconds, once ignited they burned faster, created darker smoke and more noxious fumes than natural materials. In a dramatic demonstration a few years ago comparing the ignition of a room composed of furniture and household items from the 70’s and a room composed of items found in today’s households, the Today show demonstrated how 30 years ago a person had about 17 minutes to escape a house fire while today that escape time is down to 3-4 minutes.

The use of flame retardants has created a whole new set of issues, the main one affecting human health. Flame retardant chemicals have been linked to a variety of nervous system impairments such as seizures, memory loss, and learning problems. Early research shows that they may disrupt hormone levels and are neurotoxic. Although no human studies have been conducted as of yet, evidence against a specific flame retardant suggests that it may impact fertility by influencing hormone levels and semen quality in men. What we allow children to be exposed to now in their highly vulnerable state may well be setting them up for health problems in their adult life. It is likely that exposure to these flame retardants could ultimately preclude them to learning disabilities, being unable to conceive a child, developing cancer, or some type of Senile Dementia.

These flame retardants are also affecting the health of the firefighters who fight today’s fires. Exposure to these burning chemicals has resulted in dramatic increases in cancer rates in firefighters as was found in a study of 30,000 firefighters from three large cities. Their health issues have been linked to their exposures to the noxious fumes created by the burning chemicals found in the furniture, electronics, flooring, insulation, and other building materials that once ignited become toxic fumes that are potentially carcinogenic and poisonous. This study conducted by the Nationals Institute for Occupational Safety and Health (NIOSH) further corroborated the results of several smaller studies that found that firefighters were more likely to develop cancers of the respiratory, digestive, and
urinary systems and were two times as like to develop mesothelioma. (Original article: Mortality and cancer incidence in a pooled cohort of US firefighters from San Francisco, Chicago and Philadelphia (1950–2009) Occup Environ Med oemed-2013-101662 Published Online First: 14 October 2013)

In closing, we ask that you support HB 5329. Two of Connecticut’s neighbors have passed legislation similar to what is being asked here during last year’s sessions. Both Rhode Island and Maine recognize that the effects of these chemicals are serious and insidious and while some companies are shifting away from using organohalogen flame retardants on their own, some are not. It is also important to recognize that the current EPA administration is not addressing the use of these chemicals either. HB 5329 is a step in the right direction for improving the health of our children, our citizens in general and the brave firefighters who put their lives on the line to save us and our children.

Thank you for your time and consideration.

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