

Environmental Fates of Sulfur Mustard (HD) in Concrete

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In this work, the vapor flux of distilled sulfur mustard (HD) evaporating from concrete was measured as a function of drop size and temperature using a laboratory-sized wind tunnel from which the vapors were quantitatively collected using thermal desorption tubes. In addition, video cameras were used to show that the loss of HD vapor was coincident with the disappearance of the droplet. Our work deals with the transfer and fate of hazardous materials or cotaminants and characterizing exposures to chemicals in environmental media. Therefore, the results can be applicable to pesticides or other toxic industrial chemicals, and furthermore utilized to the development of chemical hazard prediction model that predicts vapor and contact hazard persistence in the environment.