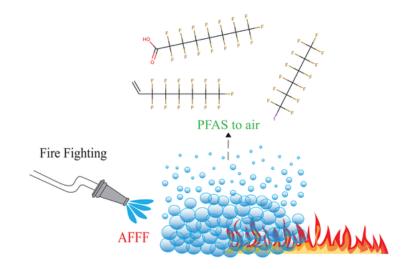


Bulletin #85, December 21, 2023 *Volatilization*

When water changes to steam, its volume increases 1700 times.

3% AFFF will expand correspondingly and off-gas PFAS. Where AFFF is used, products of combustion will contain PFAS.



Humans breathe in 2,100 to 2,400 gallons (8,000 to 9,000 liters) of air each day.

"Recent studies have found that lung tissues typically accumulate the highest concentration of PFAS. However, perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) have also been found to build up in liver and bone tissue," according to Schmidt & Clark LLP.

Carcinogenic chemicals contained in firefighting foams will volatilize. Check out your states' right to know chemicals such as:

- 1,4-Dioxane
- Benzene
- Fermentation derived cellulose
- Formaldehyde
- Methanol
- PFOA

Wise-Answer, accessed 10/20/2023,

https://www.tandfonline.com/doi/abs/10.1080/10962247.2023.2192009

ACS, Environ. Sci. Technol. Lett, Release of Volatile Per- and Polyfluoroalkyl Substances from Aqueous Film-Firming Foam, Julia Roth, February 20, 2020, https://pubs.acs.org/doi/abs/10.1021/acs.estlett.0c00052 [graphic]

Schmidt & Clark LLP, Accessed on 11/1/2023, https://www.schmidtandclark.com/are-pfas-absorbed-through-the-skin



U.S. State Regulatory Information:

Specific State regulations to be aware of:

- Alaska Designated Toxic and Hazardous Substances
- California Permissible Exposure Limits for Chemical Contaminants
- Florida Substance List
- Illinois Toxic Substance List
- Kansas Section 302/303 List
- Massachusetts Substance List
- Minnesota List of Hazardous Substances
- Missouri Employer Information/Toxic Substance List
- New Jersey Right to Know Hazardous Substance List
- North Dakota List of Hazardous Chemicals, Reportable Quantities
- Pennsylvania Hazardous Substance List
- Rhode Island Hazardous Substance List
- Texas Hazardous Substance List
- West Virginia Hazardous Substance List
- Wisconsin Toxic and Hazardous Substances