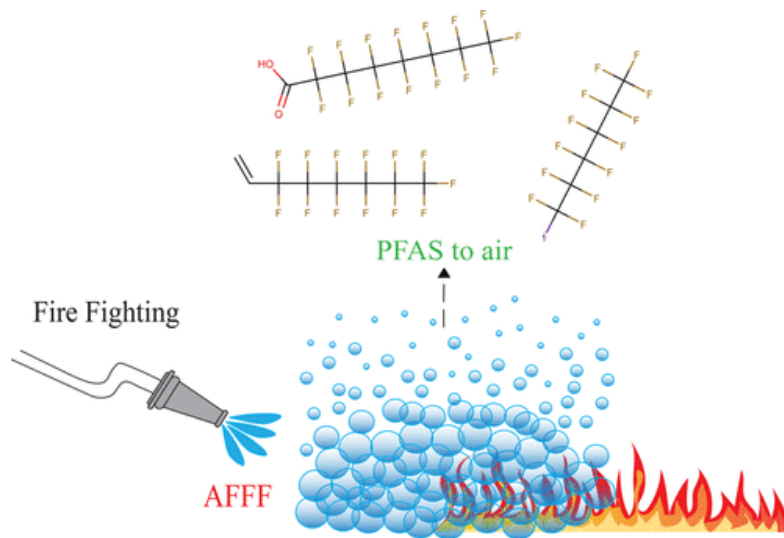


Bulletin #84, December 8, 2023
Vaporization

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

The conversion of a solid or liquid into a gas is evaporation, sublimation and uncontrolled combustion.



“The conversion of liquid to vapor increases both the hazardous material’s mobility and the challenges responders face when dealing with the material.”

Be aware of carcinogenic chemicals that may be in firefighting foams you are using in your own community.

Wise-Answer, accessed 10/20/2023,
<https://www.tandfonline.com/doi/abs/10.1080/10962247.2023.2192009>

Analyzing the Incident: Identifying Potential Hazards, 5th Edition, Chapter 4, 2017, p. 142,
https://www.ifsta.org/sites/default/files/Chapter4_HMFR.pdf

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]

Foam Exposure Committee | Vicki Quint