## February Safety Newsletter



## Chemical Engineering Student Safety Team (ChESST)





On February 3, 2023, a train derailed near the small town of East Palestine, Ohio. On board were <u>several tons</u> of refrigerated vinyl chloride, the lead chemical in PVC production.

Vinyl chloride has a boiling point of -13°C, turning it into a vapor upon exposure with air. Vinyl chloride is a highly flammable gas, which when paired with a fiery accident, can create toxic fumes containing **carbon monoxide**, **hydrogen chloride**, and **phosgene**. Safe to say these emissions are fume hood worthy.

Fearing an explosion, local officials diverted the hazardous materials into a trench to be burned off. Residents were advised to evacuate the area until inspection by the Environmental Protection Agency.



Even though a catastrophic event like this is unlikely to happen in a laboratory setting, it is important to ensure we mitigate any potential accidents that can threaten our wellbeing and of others. In the event of any situations that made you feel unsafe, please share with others via this form: <u>Near Miss/Accident Reporting</u>

For any questions or concerns, please contact us at <u>UHChESST@gmail.com</u>