

In Tulsa Oklahoma, a delivery truck displaying an Oxidizer placard overturned on an interstate ramp. There was no UN/NA number, and the manifest was in the cab but very difficult to find because everything in the cab was jumbled from the accident and the driver spoke very limited English. The driver was unaware of the material in the trailer, had no HazMat training, and had no idea where the shipment originated. Fortunately, the responding engine company included a HazMat Technician, who had an ERG and a thermal imaging camera, but no other HazMat gear.

Eventually, the first responders obtained the manifest and determined the cargo was about twenty 300-gallon totes of something named Peroxyacetic acid. They determined at least 3 of the totes were breached, and the product was leaking out the back of the trailer onto a paved area, and down a grassy incline. The grassy area was actually producing smoke. Their best guess is about 1500 square feet of area has some product on it.

1. **MARPLOT:** Pretend this incident is in your jurisdiction on an interstate exit of your choice. Utilize current weather, or whatever weather conditions you prefer, but it is not raining.
2. **CAMEO CHEMICALS:** Research the material.
 - a. Does it have any hazards? If so, what are the hazards?
 - b. What is the initial isolation zone and downwind evacuation distance?
 - c. What PPE should the firefighters use?
 - d. They want to put down some absorbent. Their choices are either peat moss or kitty litter. Which, if any, should they use and why?
 - e. What, if any, other agencies should be notified and why?

3. **CAMEO Data Manager:** Does any facility in your jurisdiction report that product on their Tier 2? How would you determine that? There were 2 facilities in Tulsa that reported this material on their Tier 2.
4. **ALOHA:** Can it be modelled in ALOHA? If it can, can you model it? What “source option” would you use? What results do you get? Is the ALOHA Threat Zone consistent with the ERG recommendations? Can you estimate the amount of time it will take for 600 gallons of this product to completely volatilize?
5. **MARPLOT:** Display all your information on MARPLOT, including the ERG zones, and your ALOHA Threat Zones.