

Aspects:

- Pumping a nonconductive flammable liquid into a tank is hazardous as it forms an explosive mixture with air and has the tendency to be charged and generate sparks.
- Friction between materials (like flow) will cause charged liquids and droplets that potentially can spark.
- Keep the initial filling flow rate below 1 m/s to avoid sparking droplets, until the dip-tube is submerged!
- Scrounding is important to dissipate electrical charges.
- Elements like filters and valves can increase friction.
- Additives can increase conductivity (Aviation).
- N₂ blanketing can be used to avoid explosive mixtures.

Avoid splash loading when pumping hazardous liquids

EPSC Learning Sheets are meant to stimulate awareness and discussion on Process Safety EPSC can not be hold liable for the use of this sheet Questions or Contact via WWW.EPSC.be