

## FLAMMABLE SOLVENT HANDLING

### A. SAFETY EQUIPMENT

- 1) Equipment
  - a) Ground clamp with cable.
  - b) Non sparking tools.
  - c) Personal Protective Equipment
    - i) Eye Protection - User must wear a face shield when handling flammable solvents under pressure. Contact lenses should not be worn when working with flammable solvents because they may contribute to the severity of an eye injury.
    - ii) Gloves - User must wear solvent resistant gloves when using flammable solvents for cleaning or when handling flammable solvents under pressure
    - iii) Respiratory Protection - User must wear a NIOSH approved respirator appropriate for the chemicals he/she will be handling for an extended period of time, or in a non ventilated area.  
The North 7700 series half mask respirator with an N7500-10 paint spray/mist pre filter, N7500-01 organic vapors cartridge, and N7500-27 fit check/filter cover (dust and mist) will provide excellent respiratory protection.

### B. SPECIAL HANDLING PRECAUTIONS:

- 1) Always attach a ground clamp on any metal container that has flammable solvents stored in it. Also, when pouring flammable solvents from metal container to metal container, a ground clamp must be attached to both containers. Refer to Figure 1.

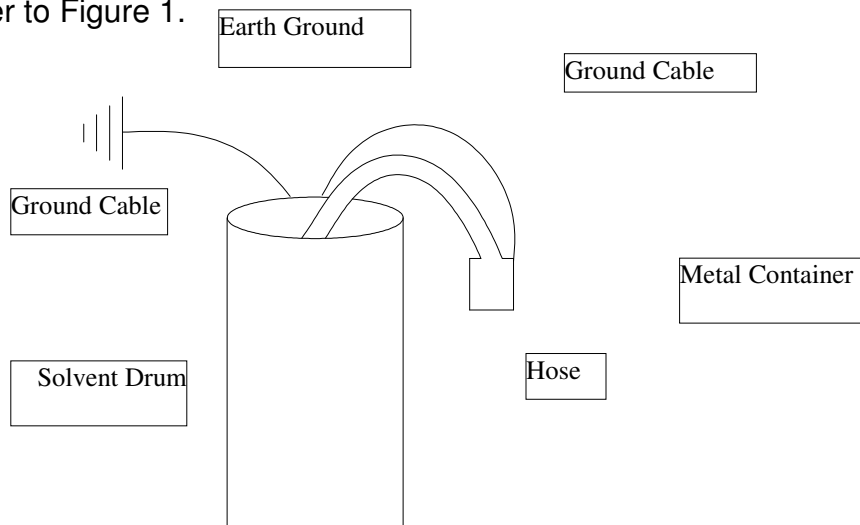
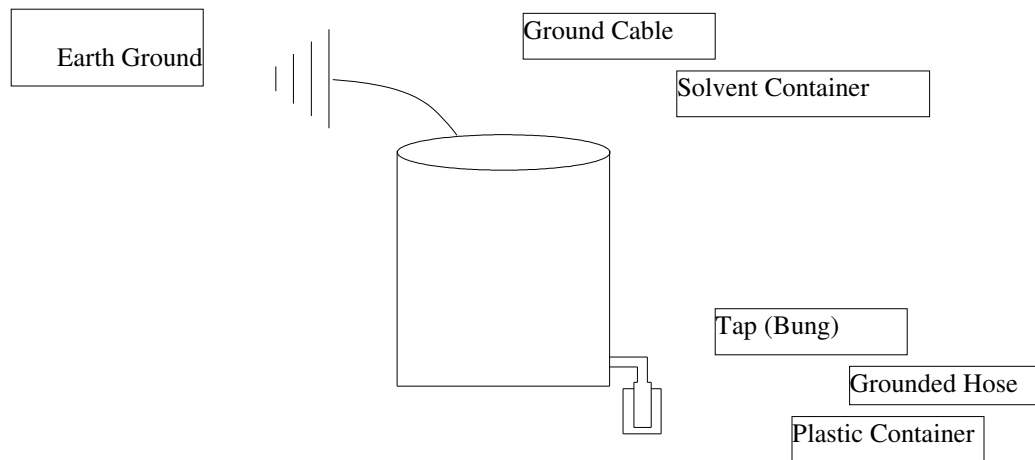


Figure 1

- 2) When pouring flammable solvents from a metal container to a plastic container, the distance from the plastic container to the grounded metal container must be minimized. Refer to Figure 2.



**Figure 2**

- 3) Whenever handling flammable solvents, storing it at the pump, or pumping solvents out of the barrel, a ground cable must be attached to all containers. Solvents will collect static charge from the liquid rubbing against the walls of the drum which may cause an electrical spark (ignition source).
- 4) All solvent barrels, when being used, must be grounded. If a ground clamp is not used, a static charge is present and if the content in drum is exposed to air, there can be a fire or an explosion.
- 5) When storing solvents in any container other than the drum it came in, a WHMIS label must be on the container and filled out correctly, with all appropriate information on the label.

**CAUTION:** Solvents are very flammable liquids.