

## APPENDIX I: SPILL KITS

Spill kits should contain:

- Gloves (nitrile, at least; foil barrier laminate better)
- Tyvek® coverall
- Goggles
- Temporary storage container for spill
- Sorbent pads and/or socks
- Loose absorbent (SlikWik®, vermiculite)
- Sweeping compound
- Warning sign or caution tape
- Chalk (for marking spill area on floor)
- Dust pan or small shovel (plastic preferable)
- Small broom
- Permanent marker (for marking spill container after clean-up)
- Recommended materials and suppliers are provided by Cornell's Occupation & Environmental Health Department at [http://oeh.cals.cornell.edu/Spill\\_Kit\\_Contents.html](http://oeh.cals.cornell.edu/Spill_Kit_Contents.html)

Forms of Sorbents

- Booms: cylindrical shape; vary in length and width; used to control and contain spills
- Socks or mini booms: cylindrical shape; vary in length and width; used in facility spill response or maintenance; contain spills or leaks (placed around equipment)
- Pillows: rectangular in shape; used for medium size spills; can be used for leaks and drips
- Pad and rolls: flat sorbent sheets of various lengths can be used to line shelves, catch leaks under machinery and clean up spills
- Loose sorbents: sorbent media that is not contained in any type of pillow or mesh; typically used on small spills

Sorbent Categories

- Universal sorbents: designed to absorb any liquid; they will absorb aggressive liquids such as acids and bases as well as non-aggressive liquids and solvents, such as cleaners, water-based fluids, gasoline and alcohol; made of polypropylene or expanded silicate materials.
- Petroleum sorbents ("oil-only sorbents"): designed for absorption of oil and/or petroleum-based liquids; these sorbents are hydrophobic (will not absorb water or water-based liquids); can be used in maintenance applications for hydraulic and engine oil cleanup; made of polypropylene or treated cellulose.
- Maintenance sorbents: absorb non-aggressive liquids commonly found in manufacturing and maintenance operations (coolants, lubricants, oils, cut-ting fluids); will pick up water-based as well as oil-based fluids; made of recycled materials, such as cotton, wool, cellulose or corn cob; can also be made of polypropylene or any combination of the materials listed.

Sorbent capacity: the amount of weight the sorbent will absorb in relation to itself (e.g., absorbs 12 times its weight) or the liquid capacity of the sorbent (e.g., absorbs 8 gallons). Because all liquids don't weigh the same per gallon, the weight capacity of the sorbent actually varies from liquid to liquid. A more accurate way to assess the sorbent capacity is by its liquid capacity.