Listed Hazardous Waste

The four lists of hazardous waste include the following which in total includes over 800 different substances.

The wastes regulated as listed chemical wastes are listed in 40 CFR sections 261.31 (F list), 261.32 (K list), 261.33 (P and U lists). Refer to the Appendix for a detail list of these wastes.

The F List addresses wastes from nonspecific sources (e.g., spent solvents) and is broken down into several subcategories (or codes). Five codes that are commonly applicable to laboratory wastes are:

**F001 Code** — Applicable to all spent solvent mixtures and blends used for degreasing which contained, before use, a total of ten percent or more (by volume) of one or more of the following halogenated solvents:

- tetrachloroethylene
- trichloroethylene
- methylene chloride
- 1,1,1-trichloroethane
- carbon tetrachloride
- chlorinated fluorocarbons

**F002 Code** — Applicable to all spent solvent mixtures and blends which contained, before use, a total of ten percent or more (by volume) of one or more of the following halogenated solvents:

- tetrachloroethylene
- methylene chloride
- trichloroethylene
- 1,1,1-trichloroethane
- chlorobenzene
- 1,1,2,2-trichloro-1,2,2-trifluoroethane
- ortho-dichlorobenzene
- trichlorofluoromethane
- 1,1,2-trichloroethane

**F003 Code** — Applicable to all spent solvent mixtures and blends which contained, before use, a total of ten percent or more (by volume) of one or more of the following non-halogenated solvents:
xylene acetone
ethyl acetate ethyl benzene
ethyl ether methyl isobutyl ketone
n-butyl alcohol cyclohexanone
methanol

F004 Code — Applicable to all spent solvent mixtures and blends which contained, before use, a total of ten percent or more (by volume) of one or more of the following non-halogenated solvents:

cresols and cresylic acid nitrobenzene

F005 Code — Applicable to all spent solvent mixtures and blends which contained, before use, a total of ten percent or more (by volume) of one or more of the following non-halogenated solvents:

toluene methyl ethyl ketone
carbon disulfide isobutanol
pyridine benzene
2-ethoxyethanol 2-nitropropane

The K List addresses waste from specific sources (e.g., pink/red water from TNT operations - K047) and is generally not applicable to wastes generated in research laboratories.

The P List addresses unused acutely hazardous materials (e.g., laboratory chemicals having an LD50 of less than 50 mg/kg (oral; rat)). It is applicable to many surplus chemicals that are disposed of by research laboratories. Some examples are nickel tetracarbonyl, phosphine, and osmium tetroxide.

The U List addresses unused hazardous materials (e.g., toxic laboratory chemicals). Like the P list, this is applicable to many surplus chemicals that are disposed of by research laboratories. Some examples are aniline, benzene, and acetone.