## **EPA Hazardous Waste Characteristics**

 $\frac{https://www.epa.gov/hw/defining-hazardous-waste-listed-characteristic-and-mixed-radiological-wastes\#character}{wastes\#character}$ 

<u>wastes#character</u>		
EPA Waste Characteristic	Hazardous Waste	Notes
Ignitability	Parameters  1. the waste is a non-aqueous liquid with >24% alcohol by volume and has a flash point <140°F.	All waste containing ignitable liquids should be handled as ignitable waste, regardless of concentration or flash point, with the ignitable hazard classification marked on the orange Chemical/Hazardous Waste label.
	2. the waste is a pyrophoric, water reactive or explosive material.	If you believe your waste containing ignitable constituents may not meet the EPA definition of ignitable hazardous waste contact EH&S at hazmat@columbia.edu for assistance in
	<ul><li>3. the waste is an ignitable compressed gas</li><li>4. the waste is an oxidizer such</li></ul>	making a hazardous waste determination.
	as chlorates, permanganates, nitrates, and inorganic or organic peroxides.	
Corrosivity	1. the waste is a liquid or aqueous solution that has a pH of <2 or >12.5	If the waste pH is greater than 2.0 or less than 12.5, the waste is not corrosive per EPA, however should be collected for disposal by EH&S as non-hazardous waste because NYCDEP sewer rules prevent corrosive liquids from entering the sewer system. Corrosive waste that is NOT EPA hazardous waste should be marked as "Non-Hazardous" and the measured pH should be noted on the orange Chemical/Hazardous Waste label by the lab.
Reactivity	1. unstable items, explosives, reacts violently with air or when mixed with water resulting in an explosion or generation of toxic gases, is a cyanide or sulfide generating waste when exposed to pH conditions between 2 and 12.5	
Toxicity	1. includes 8 heavy metals,	If the waste contains any of the following 8
Toxioity	several pesticides and specific Volatile Organic Compounds (VOCs)	metals, EPA established specific concentrations that are considered hazardous. Contact EH&S at <a href="mailto:hazardous">hazardous</a> described for assistance in making a hazardous waste determination.  1. Arsenic (As) 2. Barium (Ba) 3. Cadmium (Cd) 4. Chromium (Cr) 5. Lead (Pb) 6. Mercury (Hg)
		7. Selenium (Se) 8. Silver (Ag)
Listed hazardous waste	<ol> <li>F listed waste from non-specific sources</li> <li>U and P listed waste which are</li> </ol>	The F-list includes many common spent halogenated and non-halogenated solvents used in research labs. All halogenated and non-halogenated solvents must be collected as
	toxic or acutely toxic	hazardous waste.  EPA has an extensive list of U- and P-listed
	Polychlorinated biphenyls (specifically listed NY State hazardous waste	chemicals. For common examples see the hazardous waste determination webpage. If you are still unsure, refer to the GHS pictogram and/or SDS and if the toxic pictogram is shown, select "toxic" on the orange Chemical/Hazardous Waste label or contact EH&S at hazmat@columbia.edu for assistance in making a hazardous waste determination.