

Example of Intermediate Treatment

	Category	Description of Waste	Treatment Method	Notes
1 2 3	Printing Plates Newspaper	Ink, cleaning oil	Incineration	* Additional steps, such as mixing or separating, as needed.
		Film	Incineration	* Some precious metals (e.g. Ag) recovered from incineration residue
		Liquid waste from photography (developer, PS waste liquid)	Neutralization	
		Liquid waste from photography (fixer)	Precious metal (Ag) recovery -> neutralization	
		Plating waste solution (Cu/Cr), etching solution (strong acid/Fe)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
4	Plating	Plating waste solution (Cu/Ni/Cr/other)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Plating waste solution (hydrocyanic acid compounds)	Neutralization, detoxification (Oxidative decomposition, flocculation-sedimentation)	
5	Metalwork	Cleaning fluid, surface prep agent, etching solution (acids, alkalis, Fe, Cr)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Cleaning oil (organic solvents), cutting & machine oils	Incineration	
6	Precision parts	Cleaning fluid, surface prep agent, grinding solution (acids, alkalis, Fe, Cu, Zn)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Cleaning oil (organic solvents), lubricants, resins (adhesives, coatings)	Incineration	* Additional steps, such as separating, as needed.
		Polishing sludge	Incineration	* Additional steps, such as dismantling or separating, as needed.
7	Electronics	Resist, stripping agent, cleaning oil (organic solvents), resins (varnish, adhesives)	Incineration	* Additional steps, such as separating, as needed.
		Stripping agent, etching solution, plating solution (strong acid, HF, hydrogen peroxide, Cu, Ni, Pb, Sn)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
8	Analysis	Analytic reagents & waste solutions (acids, alkali, standard reagents, metal salts)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Analytic reagents & waste solutions (organic solvents)	Incineration	
		Analysis samples (test samples, discarded samples, etc.)	Incineration	
9	Education	Experiment reagents & waste solutions (acids, alkalis, inorganic salts (metal salts, etc.))	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Experiment reagents & waste solutions (organic solvents), coatings	Incineration	* Additional steps, such as mixing or separating, as needed.
		Experiment reagents (organic compounds, chemicals)	Incineration	
		Samples (formalin samples)	Dissolve⇒Incineration	
		Experiment equipment (chemical encrusted)	Cleaning⇒neutralization, incineration	* May be incinerated or neutralized depending on the encrusted material.
10	Research	Research reagents & waste solutions (acids, alkalis, inorganic salts (metal salts, etc.), standard reagents)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Research reagents & waste solutions (organic solvents)	Incineration	
		Research samples (intermediates, prototypes, organic compounds, chemicals)	Incineration	* Additional steps, such as dismantling or separating, as needed.
		Experiment equipment (chemical encrusted)	Cleaning⇒neutralization, incineration	* May be incinerated or neutralized depending on the encrusted material.
11	Drug Mfr.	Extraction reagents & waste solutions (organic solvents)	Incineration	
		Herbal medicines, active pharmaceutical ingredients	Incineration	* Additional steps, such as dismantling or separating, as needed.
		General purpose research chemicals & waste solutions (acids, alkalis)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
12	Chemicals	Analytic (research) reagents & waste solutions (acids, alkalis, standard reagents (Hg, As, Se, Pb, Cr,	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Analytic (research) reagents & waste solutions (organic solvents)	Incineration	
		Mfr. products (intermediates, prototypes, organic compounds, chemicals, etc.)	Incineration	* Additional steps, such as dismantling or separating, as needed.
		Pharmaceutical active ingredients and intermediates, etc.	Incineration	* Additional steps, such as dismantling or separating, as needed.
13	Quality Control	Analysis reagents & waste solutions (acid, alkali, inorganic salts (metal salts, etc.), standard samples)	Neutralization, detoxification (flocculation-sedimentation)	* Resources recovered from flocculated sediment (metal compounds, etc.)
		Analytic reagents & waste solutions (organic solvents)	Incineration	
14	Medical Care	Infectious waste (blood-tainted clothing, scalpels, hypodermic needles, etc.)	Incineration (sterilization)	
		Disinfectants and sterilization agents (soap solutions, disinfectants)	Neutralization	
		Pharmaceuticals (expired drugs, psychotropic drugs, etc.)	Incineration	
		Pharmaceuticals (Mercurochrome, iodine, peroxide)	Neutralization, detoxification (De-oxidative decomposition, flocculation-sedimentation)	
		X-ray films, medical records	Incineration	* Some precious metals (e.g. Ag) recovered from incineration residue
15	Pathology	Pathology test chemicals & waste solution (organic solvents)	Incineration	
		Pathology test chemicals & waste solutions (acids, formalin)	Neutralization	
		Pathology test chemicals & waste solutions (hydrocyanic acid compounds)	Neutralization, detoxification (Oxidative decomposition, flocculation-sedimentation)	
		Pathology samples (specimens)	Incineration	