

The segregation table of experimental liquid waste

Common cautions

- Accumulate Experimental liquid waste, Primary and Secondary washings.
- A liquid waste can be stored until 80 percent of the container.
- After judging division by contents and pH value, sort liquid waste into corresponded division.
- Don't leave liquid waste in laboratory while accumulating, carry a little out on a carrying out days. (Carry out liquid waste accumulated at least once a half year.)
- Don't mix liquids waste among the different divisions.
- Record chemicals which liquid waste includes, pH value and weight on carry-out forms.

Hazardous substances in Waste Management and Public Cleansing Act

Alkylmercury compounds, Mercury and its compounds, Cadmium and its compounds, Lead and its compounds, Organic phosphorous compound, Hexavalent chromium, Aresevic and its compounds, Cyanide, PCB, Trichloroethylene, Tetrachloroethylene, Dichloromethane, Tetrachloromethane, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropene, Thiuram, Simazine, Thiobencarb, Benzene, Selenium and its compounds, 1,4-dioxane, Dioxin kinds.

2020/6 Form a committee

Kinds		Number of container	Divisions / Object of chemicals or pH value		Cautions
L i q u i d w a s t e	Inorganic liquid waste	① シアン(CN)	1. Cyanide Carry-out form of "HAZARDOUS SUBSTANCES"	HCN, KCN, Sodium nitroprusside dihydrate, etc.	<ul style="list-style-type: none"> • Make the liquid waste alkaline, pH 12 or above by adding either NaOH, or KOH, and charge into the plastic containers. (Operate in a fume hood. Never make the liquid waste acid or neutral.) • The same treatment should be applied to the liquid waste containing any metals. • Record any chemicals other than Hg in the container on carry-out form. • Don't take mercury of products including mercury by force. • When you carry out to the Enviromental Safety Center, it's different in delivered place depending on pH value.
		② 硫化物(S)	2. Sulfide Carry-out form of "HAZARDOUS SUBSTANCES"	H ₂ S, Na ₂ S, K ₂ S, CdS, ZnS, etc.	
		③ 水銀(Hg)	3. Mercurial compound Carry-out form of "HAZARDOUS SUBSTANCES"	HgSO ₄ , CH ₃ -Hg, etc.	
		④ 他 有害物	4. Other hazardous substances Carry-out form of "HAZARDOUS SUBSTANCES"	Cd, Pb, Organic phosphorous compound, Cr ⁶⁺ , As, Se	
		⑤ 強アルカリ性	5. Strong alkali Carry-out form of "ALKALINE, ACID"	Alkali over pH 12.5	
		⑥ 強酸性	6. Strong acid Carry-out form of "ALKALINE, ACID"	Acid under pH2.0	
		⑦ アルカリ性	7. Alkali Carry-out form of "ALKALINE, ACID"	Alkali of pH 7.1 ~ 12.4	
		⑧ 酸性	8. Acid Carry-out form of "ALKALINE, ACID"	Acid of pH 2.1 ~ 7.0	
	Organic liquid waste	⑩ 有機ハロゲン化合物	10. Waste oil including organic halide or hazardous substances Carry-out form of "WASTE OIL"	Dichloromethane, Chloroform, Benzene, 1,4-dioxane, etc.	<ul style="list-style-type: none"> • Record any chemicals in the container on carry-out form. • While accumulating organic liquid waste, Be careful about handing of fire in the neighborhood.
		⑪ その他 有機	11. Waste oil except number 10 Carry-out form of "WASTE OIL"	n-Hexane, Acetone, Formalin, Mineral oil, etc.	

The waste which you must not carry in to the Enviromental Safety Center

- Unnecessary chemicals, ● Nuclear fuel materials, ● Polychlorinated biphenyls, ● Asbestou

The phone numbers about the experimental liquid waste

"Envirometal management charge (Extension:2319 External:0852-32-9829)" "Enviromental safety center (Extension:2348 External:0852-32-8914)"