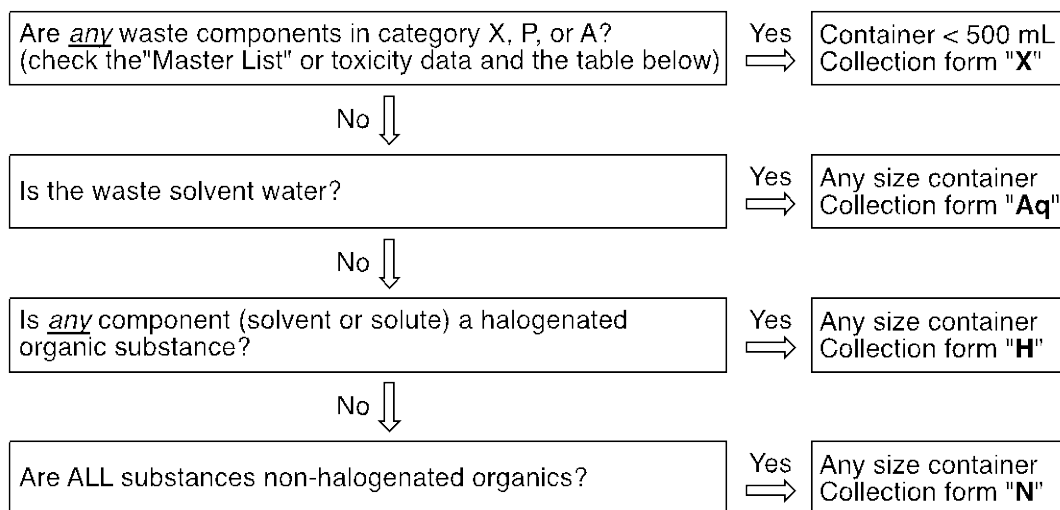


Waste Collection Instructions

Laboratory waste management depends on proper collection and labeling. First you must identify each chemical's "Toxicity Category" (X, A, B, C, or D) because this determines how the waste will be collected. Second you must consider the solvent (water, halogenated, or non-halogenated). Third, the correct collection form should be chosen and filled out accurately. Use the flow chart below to determine the waste collection container size and appropriate collection form.



Determining a chemical's Toxicity Category:

Use Table 1 (below) to determine the toxicity category of any waste. LD₅₀ and LC₅₀ data can be found on SDS forms in Sections 11 and 12.

Table 1. Determining the Toxicity Category of a Substance.^a

Toxicity Category	Fish LC ₅₀ (mg/L)	Oral (rat) LD ₅₀ (mg/kg)	Inhalation (rat) LC ₅₀ (mg/L)	Dermal (rabbit) LD ₅₀ (mg/kg)	Example compounds
X	< 0.01	< 0.5	< 0.02	< 2	organophosphates, pesticides
A	0.01 – 0.1	0.5 – 5	0.02 – 0.2	2 – 20	fuming nitric acid, aflatoxin
B	0.1 – 1	5 – 50	0.2 – 2	20 – 200	phenol, sodium azide, sodium cyanide
C	1 – 10	50 – 500	2 – 20	200 – 2000	stannic chloride, sodium fluoride
D	10 – 100	500 - 5000	20 - 200	2000 – 20,000	methanol, stannous chloride

^a In cases where several LC₅₀ or LD₅₀ values are available, select the Toxicity Category that gives the highest toxicity category (X > A > B > C > D). For example, imagine that a chemical that has an LC₅₀ value in fish of 0.62 mg/mL (Toxicity Category A), and an oral (rat) LD₅₀ value of 11.3 (Toxicity Category B); that chemical must be classified as Toxicity Category A (the higher of the two Toxicity Categories).