Chemical Waste Log Guidance

(PLEASE READ CAREFULLY)

1. **Container Description:** Identify the container by type, size, location, and any other relevant information. Some examples are: 1L poly bottle; 50ml glass vial #1; 1 gal. plastic Ziploc bag; in the fume hood; in the flammable cabinet; etc…
2. Multiple containers with ***identical*** contents and compositions may be grouped together on one log – Please specify the total number in the Container Description. Otherwise – ONE Chem Waste log is required for EACH container.
3. Specify **pH** and **Flash Point** for the entire contents based on SDS or Process Knowledge.
4. **Nanomaterials** are classified as anything under 100 nm (0.1 microns) in size and should be identified *per line item.*
5. Every **Constituent** in the container must be identified separately by *full chemical name*.
6. All components of a "Solution" should be identified, including their ratio.
7. Include the SDS CAS number for every line item.
8. The amount of each constituent can be approximated as a **% or % Range**, i.e. 5-10%
9. Solid Waste includes any item contaminated with hazardous materials.
10. Solid Waste should be specified (gloves, wipes, swabs, pipette tips, empty vials, tubing, etc.), listed as 100%, and identify the hazardous contaminants (i.e. trace amounts of…)
11. Hard copies of forms should be attached to the waste containers, as well as *emailed* to the Beamline Safety Coordinator along with all SDS and supporting documents.
12. SDS for synthetic materials should be discussed with the Argonne ESH-QA Safety Manager. Contact Steve Rupkey at srupkey@anl.gov.

Waste Container Guidance

1. Liquid waste containers must have secure lids – *no snap-on lids allowed!* – and filled to no more than 85% of capacity.
2. **ALL waste containers must be properly labeled with your name, date, and contents.**
3. Compatible waste should be consolidated into as few containers as possible, with the following exception – Nanomaterials should be kept isolated from larger amounts of chem waste that is otherwise void of nanomaterials.
4. Please try to minimize generated waste whenever possible.
5. Waste needles and blades, etc. should only be placed in appropriate Sharps containers.
6. Tubing and Non-sharp syringes should be emptied of hazardous contents and treated as solid waste.

CW_____

Chemical Waste Log – Sector: 7

Name (Waste Generator)	Phone #	**Accumulation START Date**
Principal Investigator	E-mail	Experiment ID / GUP# (from ESAF)

Process Knowledge: Description of how waste was generated: (Please check all that apply)

- ☐ Waste is discarded sample material.
- ☐ Waste is a discarded PURE reagent grade chemical.
- ☐ Other:
- ☐ Waste was used to prepare sample material or its holders.
- ☐ Waste contains potential peroxide formers.

Container Description/location/ID: (size, glass, poly, etc. - *ONE form per container)*	**Physical Form**	**For Liquids**		**Do contents include nanomaterials?**
		pH=		
	☐ Liquid ☐ Solid	Flash Point <= 140° F		YES ☐
		Flash Point >= 140° F		NO ☑

Constituents: Provide Complete Chemical Name (Not just formulas). and SDS CAS No. for each chemical.		**% or % Range**
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
MSDS CAS#:		
Total material = (volume or weight)	**(Use a 2nd logsheet or double up on each line for more constituents…)**	**Total ~ 100%**

RCRA (F-K-P-U) Listed or Characteristic Hazardous Waste? YES ☐ NO ☐ Corrosive ☐ Toxic ☐ Flammable ☐ Oxidizer ☐ Reactive ☐ Other:

- **Waste container must be properly labeled with your name, date, contents, and hazards.**
- **Please send completed forms & SDS and direct any questions to your Beamline Safety Officer.**
- **The Beamline Safety Officer is:** Ray Ziegler