

SOLVENT BOTTLE DISPOSAL PROCEDURE

FOR 4L CONTAINERS WHICH WERE USED TO STORE SOLVENTS

4L-Solvent bottles, glass or plastic, which were used to store solvents CANNOT BE RECYCLED. However, empty solvent bottles CAN BE REUSED to collect chemical waste, as long as they are in good conditions and properly identified as waste. If not, these bottles **must be rinsed 3 times before being discarded**. Make sure to always perform this procedure in a working fume-hood or well-ventilated area. Here is a list of typical 4L-solvent bottles that can be washed using this procedure:

Acetone	Diethyl ether	<i>N,N</i> -Dimethylformamide (DMF)
Acetonitrile	Dimethylsulfoxide (DMSO)	Petroleum ether
Alcohols (e.g. ethyl, methyl, isopropyl...)	Ethyl Acetate	Tetrahydrofuran (THF)
	Hexanes	

DO NOT perform this procedure for any water-sensitive chemicals (organometallics, metal hydrides and pyrophoric reagents), highly toxic reagents (phenol, mercury reagents, cyanide reagents or others), or certain solvents such as Chloroform, Dichloromethane, Toluene, Xylenes. Please refer to EHS-DOC-018 for Chemical Waste Disposal Guidelines.

HOW TO TRIPLE RINSE:

- Each rinse should consist of minimal water being sloshed around the capped container (Figure 1).
- First water rinse is considered chemical waste and must be collected in the appropriate waste container. Second and third water rinses can go down the drain. Ensure water is running when flushing rinse water down the drain.
- For **water-insoluble materials**, an appropriate solvent (e.g. ethanol or acetone) must be used to pre-rinse the container prior to the water rinses. Collect all solvent rinses as chemical waste.
- If the chemical is harmful to the environment then all 3 rinses must be collected.
- If unsure about the toxicity of the chemical, refer to its MSDS.



Figure 1: Triple Rinse Procedure

PROCEDURE FOR GLASSWARE DISPOSAL:

1. **TRIPLE RINSE** container (as described above).
2. **REMOVE/DEFACE** the original product label (Figure 2) and indicate **“RINSED”**.
3. **REMOVE** the cap and the Concordia Inventory Barcode (if present). Affix the barcode to an Inventory Disposal Card for inventory update purposes.
4. **LEAVE** the container outside the laboratory’s door in the **service corridor only**. If the laboratory has no direct access to a service corridor, place the rinsed and uncapped container(s) beside the regular garbage inside the lab for Custodial Services to pick up.
5. **If you are unsure about the application of this procedure, please contact EHS.**



Figure 2: Chemical bottle ready to be discarded

Questions or inquiries:

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