

# Drain Disposal of Laboratory Quantity Chemicals to the Sanitary Sewer System

Audience: University of Connecticut Laboratories  
 Campus Covered: Storrs and Depot Campus ONLY  
 EHS Contact: Denis Shannon, (860) 486-3115  
 Reg. Citations: Title 40 CFR and University Policy  
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The following solutions are the allowable discharges to laboratory sinks. Discharges are limited to one liter per day of concentrations less than or equal to one molar:

- Inorganic solutions with pH between 5.0 and 9.0
- Soaps and detergents (Non-Corrosive)
- Mercury-free Bleach/Wescodyne™/Cidex OPA™/Quatricide®/Cetylcide II solutions
- Used scintillation fluid designated for drain disposal by UConn's Radiation Safety Officer
- Non-contaminated growth media
- Purified biological materials such as amino acids and proteins in aqueous buffer solutions
- Sugars and sugar alcohols (polyols) such as glycerol, xylitol and sorbitol.
- Buffer solutions
- Spent photographic developer (NON FIXER)
- Inorganic salts for which both the cations and anions are listed in the following table:

CATIONS	ANIONS
Aluminum, Al <sup>3+</sup>	Borate, BO <sub>3</sub> <sup>3-</sup> , B <sub>4</sub> O <sub>7</sub> <sup>2-</sup>
Ammonium, NH <sub>4</sub> <sup>+</sup>	Bromide, Br <sup>-</sup>
Calcium, Ca <sup>2+</sup>	Carbonate, CO <sub>3</sub> <sup>2-</sup>
Cesium, Cs <sup>+</sup>	Chloride, Cl <sup>-</sup>
Iron, Fe <sup>+</sup>	Bicarbonate, HCO <sub>3</sub> <sup>-</sup>
Lithium, Li <sup>+</sup>	Bisulfate, HSO <sub>4</sub> <sup>-</sup> , Bisulfite, HSO <sub>3</sub> <sup>-</sup>
Magnesium, Mg <sup>2+</sup>	Fluoride, F <sup>-</sup>
Manganese, Mn <sup>2+</sup> , Mn <sup>3+</sup> , Mn <sup>4+</sup> , Mn <sup>7+</sup>	Hydroxide, OH <sup>-</sup>
Potassium, K <sup>+</sup>	Iodide, I <sup>-</sup>
Sodium, Na <sup>+</sup>	Nitrate, NO <sub>3</sub> <sup>-</sup> , Nitrite, NO <sub>2</sub> <sup>-</sup>
Strontium, Sr <sup>2+</sup>	Oxide, O <sup>2-</sup>
Tin, Sn <sup>2+</sup>	Phosphate, PO <sub>4</sub> <sup>3-</sup>
Titanium, Ti <sup>3+</sup> , Ti <sup>4+</sup>	Sulfate, SO <sub>4</sub> <sup>2-</sup> , Sulfite, SO <sub>3</sub> <sup>2-</sup>
Zirconium, Zr <sup>2+</sup>	Thiosulfate, S <sub>2</sub> O <sub>3</sub> <sup>2-</sup>

Solutions containing any amounts of Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Copper, Nickel, Osmium and Zinc should not be discarded into the sanitary sewer system. For assistance in evaluating your waste disposal needs call the UConn EH&S office at 860-486-3115.