EH&S prepares, packages and disposes of chemical waste to provide the most cost effective alternatives. Proper identification and labeling of hazardous chemical waste is the responsibility of the person generating the waste. EH&S will not bulk hazardous chemical wastes from waste generators who improperly identify and label their wastes. Wastes from these generators will be lab-packed and the higher costs passed on to the generator.

Requirements to Bulk Liquid Wastes

- Only liquid wastes can be bulked - some chemical wastes with high freezing points may become solid and can't be bulked (DMSO, ethyl acetate)
- The waste must be properly and completely labeled - waste labeled incorrectly or exhibiting additional phases, questionable color, or other factors can't be bulked
- The waste must pass a compatibility test with similar wastes - any failing a pre-bulk compatibility test due to smoking, fizzing, foaming, polymerization, fire or other reaction can't be bulked
- The waste must be in containers or volumes of at least one liter - wastes in containers or volumes less than 1 liter can't be bulked because they are difficult to handle with the protective equipment that must be worn by hazardous waste staff
- Inorganic acids must meet the metal limits for bulk solvents
- The following inorganic acids can be bulked if they meet the following requirements
  1. Nitric acid < 20% Solution
  2. Hydrochloric Acid < 20% Solution
  3. Sulfuric Acid < 20% Solution, Cr < 1,000 ppm
  4. Mixed Acids Cr < 2000 ppm, Pb < 1,000 ppm
     a) Chromic < 10% Solution
     b) Sulfuric < 20% Solution
     c) Perchloric < 10% Solution
- Solvent wastes containing metals can't be bulked if the concentration of a metallic constituent exceeds any of the following limits:
  1. Arsenic 005.0 mg/l
  2. Barium 100.0 mg/l
  3. Cadmium 001.0 mg/l
  4. Chromium 005.0 mg/l
  5. Lead 005.0 mg/l
  6. Mercury 000.2 mg/l
  7. Selenium 001.0 mg/l
  8. Silver 005.0 mg/l
  9. Nickel 134.0 mg/l

Visit www.ehs.ucr.edu for additional information or call EH&S at 827-5528 if you have any questions.