

Sanitary Drains and Proper Disposal Best Management Practices

Standard Operating Procedure

Revision Date: 04/28/2023

The following hazardous substances and associated wastes **must** be collected by Environment, Health & Safety (EHS), Hazardous Materials Management (HMM). Call (734) 763-4568 for collection and disposal. Go to the EHS [Hazardous Waste](#) page for information about proper waste management.

SUBSTANCE	FURTHER INSTRUCTIONS
Acid, Bases, and Buffer Solutions	Contact HMM if the acid, base, or buffer solution waste water: <ul style="list-style-type: none"> Has pH level below 5 and above 10 Contains metals Discharge the acid, base, or buffer solution waste water to sanitary sewer drain only if it: <ul style="list-style-type: none"> Has a pH level between 5 and 10 Does not contain any metals, solvents, oils, stains, etc
Alcohols	<ul style="list-style-type: none"> Collect for proper disposal
Blood & Blood Products	<ul style="list-style-type: none"> Collect the following waste, then contact HMM for collection: <ul style="list-style-type: none"> Chemically contaminated blood solutions as biohazardous chemical waste Solids such as tissues and blood clots <p>NOTE: Treat non-chemically contaminated biohazardous liquids with 1:10 dilution of household bleach to waste. After the waste is treated, the liquid can be poured down the sanitary sewer drain. Precautions are required to avoid splash exposure during this procedure.</p>
Clay/Sediment	<ul style="list-style-type: none"> Contact facility maintenance for trap cleaning when a trap is full
Dyes	<ul style="list-style-type: none"> Collect for proper disposal
Formalins	<ul style="list-style-type: none"> Collect for proper disposal
Glassware –Rinses	<ol style="list-style-type: none"> Use alcohol or other chemicals to rinse beakers and other glassware. NOTE: You must collect residual waste water for disposal during this step. After the glassware is emptied of alcohol and chemical residuals, triple rinse glassware. NOTE: This waste water may be discharged to the sanitary drain.
Glazes	<ul style="list-style-type: none"> Collect for proper disposal
Glycol (Ethylene and Propylene)	<ul style="list-style-type: none"> Collect all glycol and first flush rinse from equipment, such as heating or cooling loops. Contact HMM for collection Discharges to sanitary systems must contain less than 1% glycol Follow the Spill Prevention Control and Countermeasures Plan to store glycol that will be reused Contact HMM to collect glycol that will not be reused
Metals	<ul style="list-style-type: none"> Consult operating procedures or Safety Data Sheets for chemical constituents in the material

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Paints	<ul style="list-style-type: none"> • Go to Hazardous Waste page for information about proper waste management • Contact HMM for collection <p>NOTE: Jewelry Studio--Contact facility maintenance to clean sediment traps in drains and HMM for collection and disposal</p>
Phenols	<ul style="list-style-type: none"> • Discharge wash water used to clean brushes and tools used to apply watercolors, acrylics, and latex paints in sanitary drains • Contact the Office of Campus Sustainability to collect excess paint as part of the Chemical Reuse Program • Contact HMM to collect excess, unwanted paint
Phosphorus	<ul style="list-style-type: none"> • Use quaternary ammonium compounds in place of cleaners containing phenols per the Michigan Hospital Association recommendation • When possible, use bleach for surface disinfection
Photo Processing Wastes	<ul style="list-style-type: none"> • Collect wastewater containing phosphorus • Contact HMM for collection • Look for alternative detergents and masonry cleaners that do NOT contain phosphorus and are environmentally friendly
Photo Processing Wastes	<ul style="list-style-type: none"> • Collect fixer, developer, and other chemicals • Contact HMM <p>NOTE: There are pretreatment systems to recover silver from the photo development wash-water prior to draining. Metal recovery companies can supply silver recovery systems, provide maintenance and remove the collected silver on a routine basis. Contact EHS for more information regarding silver recovery.</p>
Stains	<ul style="list-style-type: none"> • Collect ethidium bromide (EtBr) or Coomassie from stains. Contact HMM for collection. <p>NOTE: Use Gel Red in place of EtBr. For more information, refer to the document Gel Red—A Safer Alternative To Toxic Ethidium Bromide In DNA Research.</p> <p>NOTE: Fluorescent dye used in automated DNA sequencing is not hazardous and has no special disposal requirements.</p>
Unused Chemicals	<ul style="list-style-type: none"> • Unopened chemicals: Contact the Office of Campus Sustainability for collection as part of the Chemical Reuse Program • Open, contaminated, or expired chemicals: Contact HMM for collection