

# Information for MSU Campus Labs: Biohazardous Waste Segregation, Treatment & Disposal

Proper segregation, treatment and disposal of biohazardous wastes is essential to comply with MIOSHA's Bloodborne Infectious Diseases Standard, the Michigan Medical Waste Regulatory Act (MMWRA), and CDC/NIH Guidelines for Biosafety in Microbiological and Biomedical Laboratories (BMBL). Use the table below to assist you in managing your biohazardous waste. For further information, contact the EHS at 355-0153.

Waste Category	Examples	Treatment & Disposal
<b>Liquid human and animal waste</b> <ul style="list-style-type: none"> <li>• Including blood, blood products and body fluids</li> <li>• NOT including urine or materials stained with blood or body fluids</li> </ul>	<ul style="list-style-type: none"> <li>• Serum</li> <li>• Cell line waste</li> </ul>	<ul style="list-style-type: none"> <li>• Autoclave and discharge to sewer <u>OR</u></li> <li>• Chemically disinfect and discharge to sewer</li> </ul>
<b>Pathological Wastes</b> <ul style="list-style-type: none"> <li>• All human tissues</li> <li>• Animal tissues associated with infectious disease or recombinant DNA research</li> </ul>	<ul style="list-style-type: none"> <li>• All human tissues</li> <li>• Animal tissues associated with infectious disease or recombinant DNA research</li> </ul>	<ul style="list-style-type: none"> <li>• Package and store in accordance with MSU Waste Disposal Guide procedures; disposal through ULAR</li> </ul>
<b>Sharps</b> <ul style="list-style-type: none"> <li>• Items as defined by MMWRA</li> </ul>	<u>ALL:</u> <ul style="list-style-type: none"> <li>• Needles</li> <li>• Syringes (<u>with</u> or <u>without</u> needles attached)</li> <li>• Lancets &amp; scalpels</li> <li>• IV lines with attached needles</li> </ul>	<ul style="list-style-type: none"> <li>• Collect in approved sharps container; disposal within 90 days of first use or when <math>\frac{3}{4}</math> full, whichever comes first through EHS</li> </ul>
<b>Sharps</b> <ul style="list-style-type: none"> <li>• Items that are sharp enough to puncture the skin <u>AND</u> are contaminated with potentially infectious materials</li> </ul>	<ul style="list-style-type: none"> <li>• Pasteur pipettes</li> <li>• Slides</li> <li>• Broken glassware</li> </ul>	<ul style="list-style-type: none"> <li>• Collect in approved sharps container; disposal within 90 days of first use or when <math>\frac{3}{4}</math> full, whichever comes first through EHS</li> </ul>
<b>Solid Wastes (non-sharp)</b> <ul style="list-style-type: none"> <li>• Waste items generated through the lab process that are contaminated with potentially infectious materials or recombinant DNA material</li> </ul>	<ul style="list-style-type: none"> <li>• Gloves</li> <li>• Plasticware such as pipettes or pipette tips, culture plates, specimen vials, etc.</li> <li>• Towels</li> <li>• Culture or blood tubes</li> </ul>	<ul style="list-style-type: none"> <li>• Collect in autoclavable biohazard bag; close &amp; store in secondary leakproof container; decontaminate in an MSU autoclave approved for waste treatment following parameters posted by EHS or through medical waste hauler.</li> </ul>