

**University of Washington Template
For Use in Laboratories to Meet Required WAC 296-62-400 Regulation**

Standard Operating Procedures for Chemicals or Processes					
#1 Process (if applicable)	Secondary fixation following glutaraldehyde fixation for electron microscopy.				
#2 Chemicals	OsO4 (osmium tetroxide) is typically used in a concentration of 1% in appropriate buffer (i.e. 0.1M phosphate buffer, pH 7.4). Highly toxic by inhalation, skin contact or ingestion. May accelerate combustion, emits toxic fumes under fire conditions, contact with other materials may cause fire.				
#3 Personal Protective Equipment (PPE)	Gloves, lab coat, goggles				
#4 Environmental / Ventilation Controls	Fume hood in CD 186A				
#5 Special Handling Procedures & Storage Requirements	Osmium tetroxide is a strong oxidizer. Avoid contact with chemicals that are reactive with strong oxidizers. Toxic. Vapors can cause corneal burn.				
#6 Spill and Accident Procedures	Within the hood: absorb spill with paper towels. Place towels in open waste bag to allow fumes to evaporate. Close bag, label, call EH&S for pickup. Outside the hood: Clear lab of personnel, place absorbent on spill, close lab door, call EH&S Hazmat or Fire Dept.				
#7 Waste Disposal	Osmium is collected in labeled waste container. Call EH&S for pickup.				
#8 Special Precautions for Animal Use (if applicable)	n/a				
Particularly hazardous substance involved?	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; text-align: center; padding: 5px;"><u> </u> YES:</td> <td style="padding: 5px;">Blocks #9 to #11 are Mandatory</td> </tr> <tr> <td style="text-align: center; padding: 5px;"><u>X</u> NO:</td> <td style="padding: 5px;">Blocks #9 to #11 are Optional.</td> </tr> </table>	<u> </u> YES:	Blocks #9 to #11 are Mandatory	<u>X</u> NO:	Blocks #9 to #11 are Optional.
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<u>X</u> NO:	Blocks #9 to #11 are Optional.				
#9 Approval Required					
#10 Decontamination					
#11 Designated Area					
Name: Dr. Ed Rubel	Title: Professor				
Signature:	Date:				

OHS form # 407