

## **SAFETY TIPS FOR ACCURATE WEIGHING OF TOXIC/HAZARDOUS SUBSTANCES**

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### **Option 1: If amount required is greater than 50 mg:**

1. Weigh an empty sealable container on accurate balance.
2. Place a low accuracy balance (eg 2 figure accuracy 0.00) in a fume cupboard or biosafety cabinet (the choice of fume cupboard or biosafety cabinet will depend on the properties of the toxic material)
3. Place preweighed sealable container on the low accuracy balance and use the low accuracy balance to approximate the amount of the toxic material that needs to be weighed out.
4. Seal container and reweigh on the accurate balance.

### **Option 2: If you are using a liquid:**

1. Determine the density of the liquid and calculate the volume required to obtain the mass that you need (remember  $\text{volume} = \text{mass}/\text{density}$ ).
2. Weigh an empty sealable container on accurate balance.
3. In a fume cupboard or biosafety cabinet using a syringe or pipette to dispense the appropriate volume into the preweighed sealable container (the choice of fume cupboard or biosafety cabinet will depend on the properties of the toxic material)
4. Seal container and reweigh on the accurate balance.