

TRANSPORTING CHEMICALS AND HAZARDOUS WASTE

Liquid chemicals, except for specialty ESF provided 10-20L carboys (see examples to the right), must be placed in secondary containers when being transported within buildings and/or across campus. If the original container leaks or fails, secondary containment helps avoid chemical spills. A spill in a public area can result in fines or legal action from the Ministry of Environment.



TRANSPORTING ONE BOTTLE

Chemicals may be transported by hand, **but each person may carry only one bottle/tote at a time.** This leaves one free hand for opening/closing doors safely. The bottle must be carried in a Bottle Tote Safety Carrier. Totes may be used indoors and outdoors.

Bottle Tote Safety Carriers can be purchased from many suppliers including [Chem Stores](#), [VWR](#), and [Fisher Sci.](#)

Alternatively, a cart and secondary containment can be used (more information below).



TRANSPORTING MORE THAN ONE BOTTLE

Transporting more than one bottle per person requires the use of a cart with secondary containment.

WASTE CARTS

Waste carts must be sturdy, chemical resistant, have a minimum 1-inch lip, and a minimum 300 lb capacity (500 lb capacity recommended). Carts may only be used for transporting chemicals indoors.

The Safety Office recommends using the Rubbermaid Utility Carts. Carts may be purchased from many suppliers including [Uline](#), [Amazon](#), and [Global Industrial](#).

SECONDARY CONTAINMENT

All liquid waste must be placed in secondary containment. When transporting liquids on a cart, liquids should be placed inside a chemical resistant secondary container (recommend Rubbermaid 68.1L). Do not use bins without a cart. Ensure the height of the bin is greater than 1/2 the height of the largest bottle.

Rubbermaid bins are available for purchase from many suppliers including [Chem Stores](#) and [Canadian Tire](#).



EXAMPLES OF TRANSPORTING WASTE

CORRECT



Chemicals in good quality secondary containment and heavy containers are on the bottom.



Bottles are capped and in a good quality, proper size container accompanied by a completed waste sheet.



Gloves are not worn outside of lab. All liquids have secondary containment and the heavy carboys are on the bottom of a quality cart with a 1-inch lip.

INCORRECT



Improper secondary containment – bins are not chemical resistant. Recycling containers also often have holes in the bottom.



Improper secondary containment - totes should not be used on carts. Cart does not have minimum 1-inch lip.



Untied biowaste bin – the bag should be tied before transporting.