Protocol for Dispensing Cryogenic Liquids

1. Users of cryogenic liquids from large pressurized dewars must have received WHMIS II training and Compressed Gas training.
2. When handling cryogenic liquids you must wear the required personal protective equipment. This includes eye protection and non-absorbent, insulated gloves suitable for handling of cryogenic liquids.
3. You must use a dewar which is rated to store cryogenic liquids.
4. Do not fill dewars or transfer cryogenic liquids alone.
5. If the dewar is larger than 20 litres, two people should lift it.
6. To dispense cryogenic liquids from a large pressurized dewar to a smaller dewar, use the following procedure:
   a. If it hasn’t already been done, attach a hose to the ‘liquid valve’ (label 2 in the diagrams below). Make sure connection is tight.
   b. Place filling hose at least 6 inches below the mouth of the smaller receiving dewar to prevent splashing or spills.
   c. Open the liquid valve to allow cryogenic liquid to fill small receiving dewar. When you have enough liquid, close the liquid valve.
   d. When transfer is complete, ensure that the smaller receiving dewar is sealed before transporting to the laboratory.

7. If you have any questions or safety concerns, contact the Health & Safety Officer (HSO) at ext 20770. If it is an emergency situation, contact Security at ext 33333 or 416-736-5333.

March, 2009