Protocol for Toxic or Flammable Gas Cylinder Storage Rooms in the Petrie Building (023 Petrie)

In accordance with WHMIS and TDG regulations, each cylinder must be clearly labeled with the name of the gas and its UN number. A tag showing the principle investigator’s name and account number should be clearly visible.

The following procedures must be followed:

1. Users of these gas cylinder rooms must have received WHMIS II training and Gas Cylinder training.
2. Approved gas cylinder carts must be used to transport gas cylinders in and out of these gas cylinder rooms. Cylinders must be chained to the cart for safe transport.
3. During transportation or storage, all cylinders must have a tightly secured protective cap in place.
4. All gas cylinders in these rooms must be secured. Cylinders should be packed together and touching each other so that the chain can be pulled tightly and securely around the “nest” of cylinders. Ensure that the chain is tightened around cylinders such that cylinders are not free standing.
5. Unless the cylinder contains a water reactive gas, before removing a cylinder from this area use the ‘Big Blu’ solution, on ledge (to the right of the door), to verify that it is not leaking. Squirt the solution around the valve and valve stem. Watch for bubbles, indicating a leaking gas cylinder.
6. When adding a gas cylinder to the gas cylinder rooms, verify that an updated MSDS is in the binder.
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.

August, 2008