

LOCAL SAFETY OFFICER: Eliza Morris (McKay 517)

PRIMARY USERS: H. Wyss, K. Kasza, L. Jawerth, C. Kim

ROOM: McKay 520 (Rheology Room)

P.I.: David A. Weitz

DATE: September 2008

TYPE OF RESEARCH: Rheology

HAZARDS: None

PROTECTIVE CLOTHING THAT MUST BE USED FOR ALL WORK:

- **Safety Goggles** - Must be worn when working with any chemicals that could cause eye damage. Check the MSDS section on protective clothing for each chemical in use. The MSDS are on the web at (http://www.uos.harvard.edu/cgi-bin/msds/msds_bl.pl) and ~~some are also placed in McKay-531.~~
- **Aprons** - Should be worn when working with corrosives such as strong acids or bases. Check the MSDS section on protective clothing for each chemical in use.
- **Gloves** - Must be worn when working with any chemicals or cryogenes. Proper glove selection is critical. Check the MSDS for all chemicals in use. At the Safety Committee web site (<http://www-safety.deas.harvard.edu>) under "Safety Committee Services" ~~can be found a~~ listing of glove type vs. chemical. If there is any question, see Lenny Solomon or your local safety officer.

GENERAL HOUSEKEEPING RULES:

1. Be respectful of other people when using shared facilities and clean up after yourself.
2. Returned borrowed tools ASAP to the tool chest from which they came.
3. Any glassware should be cleaned and hung to dry and/or put away in the proper place before leaving the room.
4. Clutter should be avoided.
5. Read and obey all signs posted next to equipment.
6. Schedule rheometer and microscope time in advance whenever possible.
7. Training is required before using any of the rheometers.
8. Report and problems with the rheometers to H. Wyss or K. Kasza. If you've accidentally dropped, scratched, or otherwise changed the surface properties of any of the tools please let H. Wyss or K. Kasza know.

WASTE DISPOSAL RULES:

1. All glass should be disposed in an appropriate Broken Glass Waste Box.
2. ALL sharps (including razor blades and syringes) are considered a biohazard and must be disposed of in an appropriate Sharps Collection container.
3. Everyone must have current Hazardous Waste Disposal training which includes the initial "live" training and annual "on line" refresher training.

4. All chemical waste must have a university provided Hazardous Waste Tag on it. The tag should be properly filled out with **all of the information except the date** when the container **first** has waste put into it. The date is filled in when the container becomes FULL. Writing on the container itself is not acceptable.
5. **Satellite Accumulation Areas** are located in the fume hood in 531. All Hazardous Waste requires secondary containment. Do not store incompatible chemicals (i.e. acids and bases) in the same secondary containment tray and **should be stored** in in the SAA. Do not store incompatible chemicals (i.e. acids and bases) in the same secondary containment tray.
6. When a waste bottle is filled, the Hazardous Waste Tag must be DATED and EH&S must be called at once for waste pick-up. The number to call is on the green SAA sign posted in the area.

CHEMICAL STORAGE:

- Chemicals should be stored in the appropriate safety cabinet (flammables, acids, bases) in 531. No chemical should be left in a fume hood unless actively in use. The exception is Hazardous Waste which may be stored in a fume hood designated for this purpose (with a green SAA sign).
- All vials must be labeled and kept in the personal storage cabinets. The countertop is shared space and **NOT** meant for long term storage of samples.

SPECIAL TRAINING REQUIRED:

1. All lab personnel who work with chemicals should have Chemical Safety* training.
2. All lab personnel who generate Hazardous Waste must have current Hazardous Waste Disposal* training which includes the initial "live" training and annual "online" refresher training which is located through <http://www.uos.harvard.edu>.
3. All lab personnel who work with compressed gases should take the Compressed Gas Safety* training.
4. All personnel who would like to use the Physics Machine Shop must take the Machine Shop course with Stan Coutreau which includes machine shop safety training.

*** All of the above mentioned training is offered annually through the SEAS Safety Committee.**

CHEMICAL SPILL CLEAN-UP PROCEDURES:

1. Small spills should be cleaned up by those in the lab. There are **Spill Kits** located in 531.
2. For large spills, clear the area of personnel and call the EH&S control center at **5-2852**.

OTHER RELEVANT COMMENTS:

1. Do not attempt to use ANY equipment which you are not trained to use.
2. Basic medical kit is near the elevator.
5. The **Eye Wash** is located by the sink.

6. The **Safety Shower** at the entrance to the room. A second safety shower is located in the hall near the cold room.
7. If you have any questions ask your local safety officer.