

LABORATORY SAFETY RULES AND CAUTIONS

1. Students must wear lab coat and safety glasses in the lab. Students without lab coat or safety glasses will not be allowed in the lab.
2. Contact lenses are not allowed in the lab.
Acid and organic chemical vapors could get in between eye and lances. Thus, lances can be glued on the eye in the case of an accident and can be difficult to remove.
3. Wide dresses, sandal type shoes shouldn't be worn in the lab and long hair should be tied.
4. Food, drink and chewing gum are not allowed in the lab.
5. Students should know where the fire extinguisher, first aid cabinet and shower are placed in the lab.
6. Learn the emergency exit from the lab in the case of a fire.
7. Use the shower when your dresses or hair catches fire.
8. Do not run and do not make jokes in the chemistry lab.
9. Benches should not be used to sit on or to leave bags or personal things.
10. Smoke and vapor released during chemical reactions should not be smelled directly.
11. It is not allowed for students to work alone in chemistry labs without assistants or instructors.
12. Do not use Bunsen burners next to flammable chemicals (i.e. ethers)
13. Read the labels carefully on the bottle before you use the chemicals.
14. Read the experimental procedure before coming to the lab. Students who come to lab without knowledge about the experiment could create risks for themselves and other students.
15. In the case of any accident (glass cut, acid/base burn, fainting etc.) immediately inform your assistant or instructor.
16. Do not orientate the test tube toward yourself or your friend. Reaction carried out in the test tube might be dangerous.
17. Water should not be added on concentrated acids. Acids should be added to the water slowly and by stirring.
18. It is forbidden to smell and to taste the chemicals and to pull solutions by mouth when using pipet.
19. Chemicals (solid, liquid or solution) must not be dumped into the sink. Waste bottles in the lab should be used. Learn where the waste bottles in the lab are.
20. Use the "broken glass" labeled container in the lab for the broken glass pieces.
21. Matchstick, litmus paper must not be disposed to the sink.
22. Mercury vapor is invisible and toxic. Mercury releasing from a broken thermometer is very dangerous and should be reported to the lab assistant or instructor immediately.
23. Materials like hot test tube, crucible, and beaker must not hold by naked hand. Tube tongs should be used or left to cool on an asbestos wire.
24. Please use the amount of chemicals given in the procedure. Use of excess amounts can make it difficult to control the reactions or cause side reactions.
25. Left behind chemicals should not be returned to the stock bottles; instead, should be discarded into the waste bottles.

26. Always keep your working area and balance clean. Work clean and be tidy in the lab.
27. Don't change the locations of chemicals during the experiment.
28. At the end of the experiment, hand in all the materials you used to the lab assistant/technician as cleaned.
29. Make sure that gas and water taps are closed before leaving the lab.
30. Wash your hands before leaving the lab.
31. Check the following link for more information:

<http://www.gtu.edu.tr/Files/kimyaBolumu/documents/LabGuvencilik.pdf>