LABORATORY SAFETY INFORMATION

Safety in the Chemistry Lab

can cause injury if they are not handled properly. However, the laboratory is a safe place to work if will be working with equipment and materials that to end-from setting some change in motion to esting and rewarding experience. During your beginning any lab work, read these rules, learn of safety rules and practices. you are careful. Accidents do not just happen, they drawing some conclusion. In the laboratory, you Working in the chemistry laboratory is an inter them, and follow them carefully. followed in the laboratory are listed below. Before are caused—by carelessness, haste, and disregard labs, you will be actively involved from beginning Safety rules to be

General

- procedures before beginning the lab. Be prepared to work when you arrive at the laboratory. Familiarize yourself with the lab Perform only those lab activities assigned
- tory that is not called for in the laboratory proby your teacher. Never do anything in the laborathe lab. Do not engage in any horseplay. cedure or by your teacher. Never work alone in
- or placed in a designated storage area. purses, brief cases, etc. should be left at your desk should be brought to the work area. Other books, at all times. Only lab manuals and notebooks Work areas should be kept clean and tidy
- ing in the lab. Jackets, ties, and other loose garbe worn. ments should be removed. Open shoes should not 4. Clothing should be appropriate for work-
- especially in the vicinity of open flame. Long hair should be tied back or covered
- lions, or bracelets should not be worn in the lab ard, such as dangling necklaces, chains, medal-Jewelry that might present a safety haz-
- oral, carefully. 7. Follow all instructions, both written and
- worn at all times. 8. Safety goggles and lab aprons should be
- arrangements. manual or by your teacher. Never use makeshift 9. Set up apparatus as described in the lab
- (tongs, test tube holder, forceps, etc.) for handling 10. Always use the prescribed instrument
- from open flames apparatus or equipment.

 11. Keep all comb combustible materials away

- 12. Never touch any substance in the lab un-specifically instructed to do so by your
- container that is holding chemicals. 13. Never put your face near the mouth of a
- odors, use a wafting motion to direct the odors to structed to do so by your teacher. When testing for 14. Never smell any chemicals unless in-
- 15. Any activity involving poisonous vapors should be conducted in the fume hood.
- by your teacher. 16. Dispose of waste materials as instructed
- Clean up all spills immediately.
- 18. Clean and wipe dry all work surfaces at the end of class. Wash your hands thoroughly. 19. Know the location of emergency equip-
- fire blanket, etc.) and how to use them diately. ment (first aid kit, fire extinguisher, fire shower 20. Report all accidents to the teacher imme

Handling Chemicals

- much reagent as you need. bottles before removing any reagent. Take only as Read and double check labels on reagent
- 22. Do not return unused reagent to stock
- out away from your body from one container to another, hold the containers 23. When transferring chemical reagents
- add the acid to the water. When mixing an acid and water, always
- hands, wash them immediately. hands. If chemicals do come in contact with your 25. Avoid touching chemicals with your
- cal problems that might relate to lab work, such as allergies or asthma. 26. Notify your teacher if you have any medi-
- 27. If you will be working with chemicals in the lab, avoid wearing contact lenses. Change to glasses, if possible, or notify the teacher.

Handling Glassware

bing anyone. imize the likelihood of breakage and to avoid stab should be carried in a vertical position to min-28. Glass tubing, especially long pieces,

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LABORATORY SAFETY INFORMATION

Safety in the Chemistry Laboratory (continued

- hands. Use a brush and dustpan to clean up bro-ken glass. Dispose of the glass as directed by your 29. Never handle broken glass with your bare
- stopper. erine before attempting to insert it into a rubber tle tubes, thermometers, etc.) with water or glyc-30. Always lubricate glassware (tubing, this
- moving glassware from a stopper. Use a twisting in a stopper, take it to your teacher. motion. If a piece of glassware becomes "frozen 31. Never apply force when inserting or re-
- lab table. Always use an insulating pad of some Do not place hot glassware directly on the
- before touching it. Hot glass can cause painful burns. (Remember: Hot glass looks cool.) 33. Allow plenty of time for hot glass to cool

Heating Substances

- gas burner. Keep your head and clothing away 34. Exercise extreme caution when using a
- 35. Always turn the burner off when it is not
- with a flame unless instructed to do so. 37. Never heat anything without being in-36. Do not bring any substance into contact
- structed to do so. 38. Never look into a container that is being
- make sure that the mouth of the tube is not heated. 39. When heating a substance in a test tube
- pointed at yourself or anyone else. being heated or is visibly reacting. 40. Never leave unattended anything that is

I have carefully read the discussion of good laboratory safety practices and the safety precautions listed above. I understand their importance in preserving the safety of all persons in the laboratory.

Signature Course I recognize my responsibility to observe these practices and precautions while present in the laboratory Date Laboratory Section

Laboratory Locker Number Room Number