

CHEM 0011

Experiment 1 – Safety in the Chemical Laboratory

Objectives

1. To be aware of safety practices and procedures outlined in the safety video.
2. To have a brief overview of WHMIS and MSDS.
3. To locate laboratory emergency safety equipment.

Introduction

In this lab you will be watching a lab safety video. Safe working practices are essential and mandatory part of all work activities. You will be given a tour of the safety features in the lab. It is important that you know where to locate the emergency safety equipment and have an understanding of their use. Students are expected to act professionally in the lab environment.

WorkSafeBC is an independent agency governed by a Board of Directors appointed by government. Their core mandates are to:

- prevent workplace injury illness and disease,
- rehabilitate, and
- provide fair compensation

In order for WorkSafeBC to be effective, their focus is to promote healthy and safe workplaces through enforcement, consultation and education. In 1988, an emphasis on worker safety is launched with a public awareness campaign on Alcohol and Drug Abuse in the Workplace and the Workplace Hazardous Materials Information System (**WHMIS**). Follow the link to read more about WHMIS.

<http://www2.worksafebc.com/Topics/WHMIS/Introduction.asp>



Material Safety Data Sheets (**MSDS**) are used to communicate health and safety information. A Material Safety Data Sheet (MSDS) provides both workers and emergency personnel with the proper procedures for handling or working with a particular substance. MSDS's include information such as physical data (melting point, boiling point, flash point), toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment, and spill/leak procedures. These MSDS are particularly useful when a spill or an accident occurs. Follow the link to read more about MSDS.

<http://www2.worksafebc.com/Topics/WHMIS/MSDS.asp>

Your instructor will be covering the following topics in Hebden: Chemistry 11
Unit 1: Safety in the Chemical Laboratory:

- Emergency Equipment
- Protective Equipment
- In Case of Fire
- Some Laboratory Hazards
- Disposal of Chemicals
- General Rules of Safe Laboratory Conduct

Reminders:

- You will need to purchase your lab coat, and goggles before coming to next week's lab.
- Check the due dates for the online lecture and lab assessments.