

St. Michael's

Inspired Care. Inspiring Science.

Title:	Flammable and combustible liquid guidelines- wet bench research		
Program or Department:	Research	Document Type:	PROCEDURE
Effective Date:	January 01,2015	Author	Occupational Hygienist
Next Review Date:	January 01,2016	Reviewing Body:	Research Biosafety Committee
Emergency Code:		Approving Body:	Research Biosafety Committee
Keywords:	Research ,Guide , Storage , Flammable , Combustible	Document Number:	0000001097

Introduction

All researchers must abide by the flammable and combustible liquid limits as outlined by the Ontario Fire Code. Flammable and combustible liquids must be stored in the flammable and combustible cabinet. The use of flammable and combustible cabinets protects the liquids against flash fires, excessive internal temperature in the presence of fire and contains any spilled flammable liquids to prevent the spread of fire. Cabinets must be clearly labelled indicating that the cabinet contains flammables and that open flames and sources of ignition must be kept away. In order to minimize storage of flammable and combustible chemicals, purchase the smallest quantity of liquid whenever possible.

Associated Procedure

Storage Guidelines

- ⌘ Containers must be kept closed at all times when placed in the cabinet
- ⌘ Whenever possible, place bottles in a tray to contain leaks
- ⌘ The cabinet is designated for flammable and combustible materials only. Do not store any incompatible materials in the cabinet.
- ⌘ Flammable and combustible cabinets are located under the bench of alcoves in the Wet bench laboratory areas. Labs that share a cabinet are responsible for making sure that chemicals in the cabinet are all compatible.
- ⌘ The RCF flammable and combustible cabinets may be used for temporary storage when performing experiments in the core areas. RCF Coordinators must be consulted and informed before leaving any chemicals in the cabinets.

Limit Guidelines

- ⌘ Each laboratory space should not have more than 300 L (flammable and combustible liquids) of which not more than 50 L shall be flammable
- ⌘ The container used for storing flammable should be no larger than 5 L
- ⌘ Larger volumes must be stored in the shared Flammable Solvent Room located at the corner of Queen and Victoria, just north of the small parking lot in the shed. Access to the room is via key that may be signed out through the Research Facilities Office.

References

Occupational Health and Safety Act, 1990

WHMIS Regulation Ontario Regulation 644/88, 1988

Revision Number

Contact

This document is the property of St. Michael's Hospital. This material has been prepared solely for internal use. St. Michael's does not accept responsibility for the use of this material by any person or organization not associated with St. Michael's. No part of this document may be reproduced in any form for publication without permission from St. Michael's Hospital. Valid only on date printed: January/19/2015