

The Warning Sign Booklet

Prepared by: Western University Occupational Health & Safety Revision 10 - July 2019

Western University Occupational Health and Safety Contact Information

Support Services Building - Room 4159 Fax: 519-661-3420

Emergency after-hours

Contact Western Campus Community Police Services at 911.

Staff Members

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Introduction to the Warning Sign Booklet

The use and storage of hazardous materials at Western is a normal part of the ongoing teaching and research activities associated with the University. While most members of the University community will have no reason to encounter these substances, some of our staff, faculty and students must have regular access to areas containing hazardous materials. In order to protect the health and safety of all members of the University, a series of standard warning signs was developed.

The purpose of these signs is threefold. First, identifying some rooms as hazard areas will warn unauthorized persons not to enter. Secondly, they will notify those people who may be required to enter the area on an irregular or infrequent basis of the particular hazards in the room. Finally, they will serve to remind those who work in hazard areas of the need to take special precautions, and to use special protective equipment where warranted.

Throughout this booklet, warning signs are classified according to two groups. These are **<u>Caution</u>** and <u>**Danger**</u> signs.

Caution signs indicate the presence of a hazard, but do not restrict entry beyond limiting it to authorized personnel. Included, as authorized personnel are the workers in the area, caretaking staff, trades, and Campus Community Police Service (CCPS) staff.

Danger signs indicate an immediate and unusually serious hazard and restrict entry to the area to the staff working on the project only. All other personnel must have permission of the research supervisor to enter the area.

This booklet will be amended from time to time as the situation on campus changes. Please refer any questions about any of this material to Occupational Health & Safety.

Title: Caution – Hazardous ChemicalsType: CautionDate:June 2019

Description of Hazard:

Hazardous Chemicals - various WHMIS Hazard Classes

Instructions:

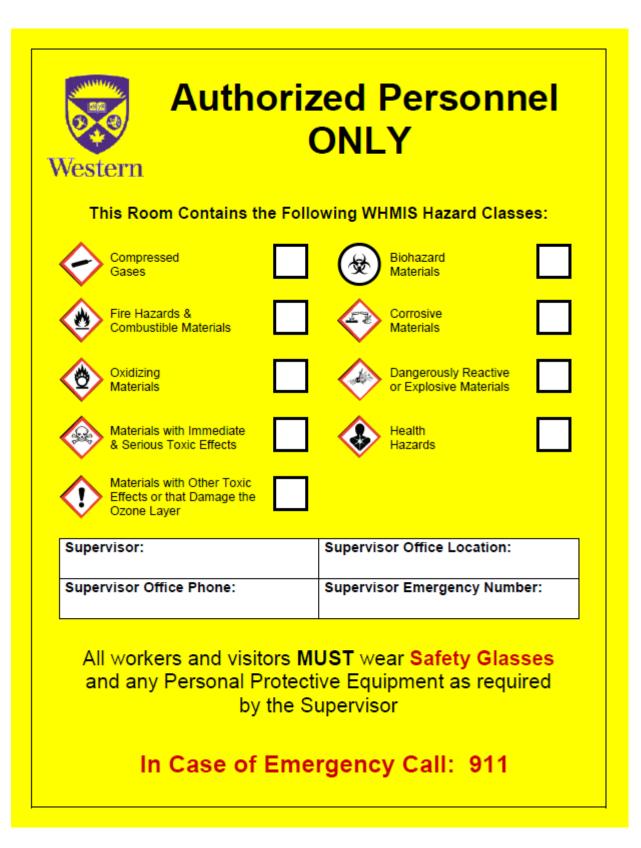
Caretaking: No restrictions on sweeping, bulb changing, dusting, garbage removal, testing safety showers or checking fire equipment.

Do not empty garbage cans containing chemical wastes or chemical bottles.

- CCPS: No restrictions on entry.
- Trades: No restrictions on entry.

Do not move or rearrange any lab equipment or containers- must be done by lab staff.

Routine maintenance must be scheduled in advance with Lab Supervisor.



Title: Material for DisposalType: InformationDate:June 2019

Description of Hazard:

Chemical Waste: - Stickers used to identify packages containing chemical waste for disposal.

Instructions:

- Caretaking: Do not touch these packages. Contact individual on label or OHS.
- CCPS: Do not touch these packages. If found on campus in unusual or inappropriate areas, contact the Researcher identified on the label, or Occupational Health & Safety.
- Trades: Do not touch these packages. Contact individual on label or OHS.

* If package is leaking, isolate the area and call Campus Community Police Services at 911.

HAZARDO	DUS MATERI	AL FOR DISPOSAL
NAME OF CONS	STITUENT(S)	% TOTAL CONTENT
PRINCIPAL HAZ	ARD(s):	
	emergency, please call:	
Research Directo	G	
Phone Number	:	
Location of Lab		
Location of Lab	•	
Date		
PR 4159 jb 01/00		

<u>Product Identifier</u>	name, generic n	nd name, chemical name, common ame, trade name, etc. of the uct found on the SDS
<u>Hazard Informatio</u>	<u>n</u>	Include the signal word and hazard statement from SDS
<u>Safe Handling Prec</u>	<u>cautions</u>	PPE requirements, hygiene, emergency measures
See Safety Data Sheet (SDS) before using		

WHMIS - Workplace Label

Title: Caution – Radiation AreaType: CautionDate:June 2019

Description of Hazard:

Radiation Area - Radioactive Laboratory and/or radioactive material storage area

- Active benches, equipment, containers and storage area are labelled with radiation tape and/or sign(s)

Instructions:

Caretaking: No restrictions on regular garbage removal, sweeping, dusting, bulb changing, drench shower testing or checking fire equipment.

Do not enter if equipment or experiment in progress, verify with the researcher.

After-hours: Contact the Laboratory Supervisor and\or CCPS at 911 **or** extension 83300.

- CCPS: Do not enter unless escorted.
- Trades: Do not enter if material in use. Maintenance must be scheduled in advance with the lab supervisor.

Do not move or rearrange any lab equipment.

After-hours: Contact the Laboratory Supervisor and\or CCPS at 911 **or** Ext. 83300.

RAYONNEMENT — DANGER — RADIATION



RESTRICTED AREA

__ Phone No. ___

RADIATION PERMIT HOLDER

Name ____

IN CASE OF EMERGENCY CONTACT: UWO RADIATION SAFETY COORDINATOR (519) 661-2111 Ext. 84746 - 8:30 am - 4:30 pm

UWO POLICE - 911 using campus telephone

DESIGNATED NUCLEAR SUBSTANCE ROOM

NOTICE TO ALL PERSONNEL

Security regulations demand that this room

MUST BE KEPT LOCKED

in the absence of an authorized person or persons during normal working hours and at all other times including evenings, nights, weekends and holidays

Title: Caution – Radioactive Material Storage Type: Caution Date: June 2019

Description of Hazard:

- Open Source radioactive materials*, being stored in frozen or prepared solutions
- Radioactive materials are labelled and in marked containers.

* open source = solid, liquid

This sign is used on refrigerators, freezers, incubators, cupboards, and other storage cabinets.

Instructions:

Caretaking: Do not enter or open these storage areas.

Any scientific equipment with this sign affixed, must not be disposed to regular garbage or landfill.

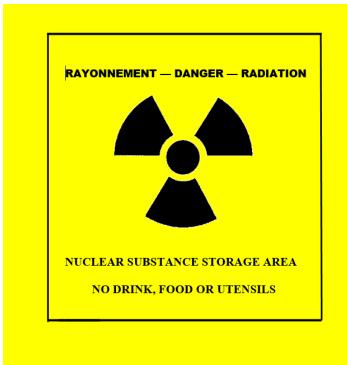
After-hours: Contact CCPS at 911.

- CCPS: Do not touch or move this equipment.
- Trades: Do not touch or move this equipment unless it has been checked for contamination and confirmed as cleaned.

Storage area must be empty and tested for contamination before repair or maintenance work can proceed.

After-hours: Contact CCPS at 911.

* You may ask for contamination results prior to doing any work



 Title: Caution – Radioactive Material
 Type: Caution

Date: June 2019

Description of Hazard:

- Radioactive materials waste label
- This sticker identifies radioactive waste materials, packaged for disposal, often usually in a 20L plastic pail, approved for radioactive waste or bags.

Instructions:

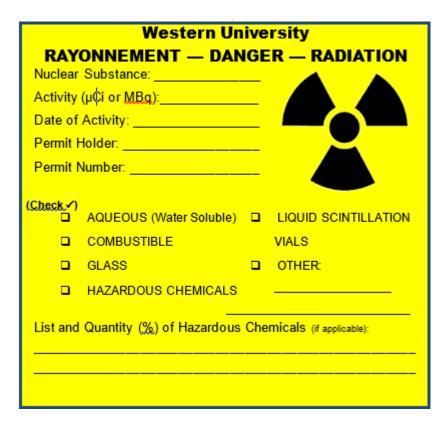
Caretaking:	Do not touch or	remove any of these	packages.
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Any packages with this sign affixed, must **not** be disposed in regular garbage or landfill.

Contact the permit holder and\or CCPS at 911.

- CCPS: Do not touch these packages. If found in an unusual or inappropriate location, contact the permit holder, identified on the label.
- Trades: Do not touch these packages.

After-hours: Call permit holder or contact the Lab Supervisor and\or CCPS at 911.



Title: Warning - This device contains RADIOACTIVE MATERIALType: CautionDate:June 2019

Description of Hazard:

Sealed Source Radioactive materials are present inside the labelled equipment.

Instructions:

Caretaking: Do not move any equipment bearing this label.

This equipment <u>must not</u> be disposed of without prior approval of OHS.

After-hours: Contact the Lab Supervisor and/or CCPS at 911.

- CCPS: Do not touch or move any equipment bearing this label, contact OHS.
- Trades: Do not touch or move any equipment bearing this label unless authorized by the Lab Supervisor.

	This radiation device contains sealed source
	Nuclear Substance
	Quantity (MBg or mCi)
	Initial Date
	Permit Holder
	Permit Number
	Telephone
	Contact the UWO Radiation Safety Coordinator before disposing of or relocating of this radiation device.
	se of emergency contact: adiation Safety Coordinator
	1 Ext. 84746 - 8:30 am to 4:30 pm
UWO Police	e – 911 using campus telephone

Title: Caution - X-RAY Room Type: Caution Date

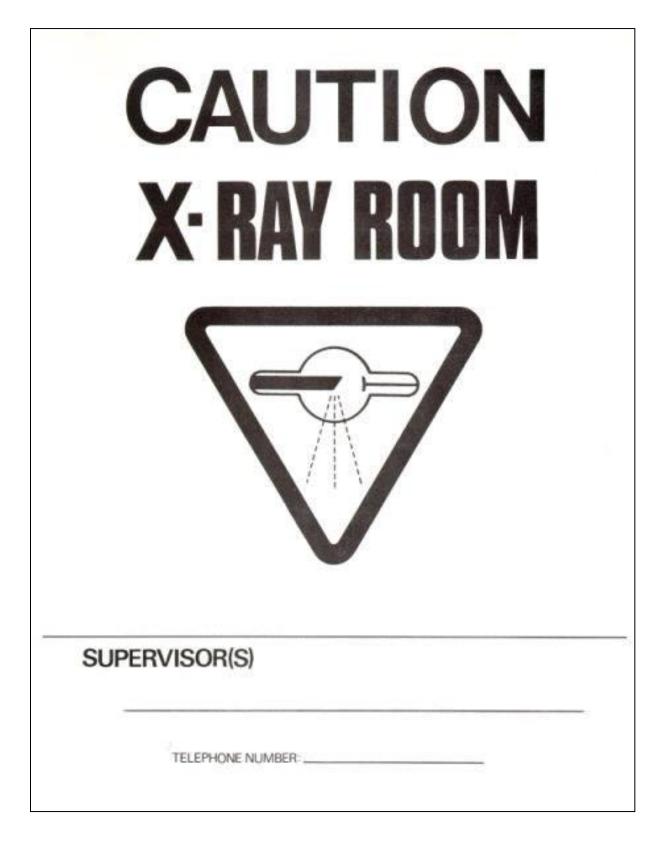
Date: June 2019

Description of Hazard:

- X-Ray generating equipment, x-ray diffraction machines, x-ray fluorescent equipment.
- Machine is turned on when red warning light located at entrance is on.
- No hazard if the machine is turned off.

Instructions:

- Caretaking: Do not enter if equipment in use, otherwise, no restrictions on entry into the room or laboratory.
- CCPS: Do not enter if equipment in use, otherwise, no restrictions on entry into the room or laboratory.
- Trades: Do not enter if equipment in use, otherwise, no restrictions on entry into the room or laboratory.



Title: Restricted Entry – Laser BeamType: Caution

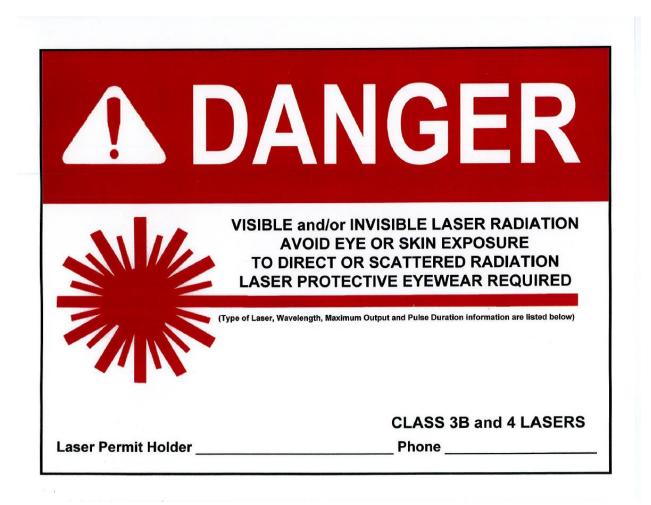
Date: June 2019

Description of Hazard:

- Laser beam may cause exposure to skin or eyes.
- Machine is turned on when red warning light located at the entrance is on.
- No hazard if the machine is turned off.

Instructions

- Caretaking: Do not enter if equipment is in use, or laser beam is turned on, otherwise, no restrictions on entry into the room or laboratory
- CCPS: Do not enter if equipment is in use, or laser beam is turned on, otherwise, no restrictions on entry into the room or laboratory.
- Trades: Do not enter if equipment is in use, or laser beam is turned on, otherwise, no restrictions on entry into the room or laboratory.



Title: Biohazard

Type: Caution

Date: June 2019

Description of Hazard:

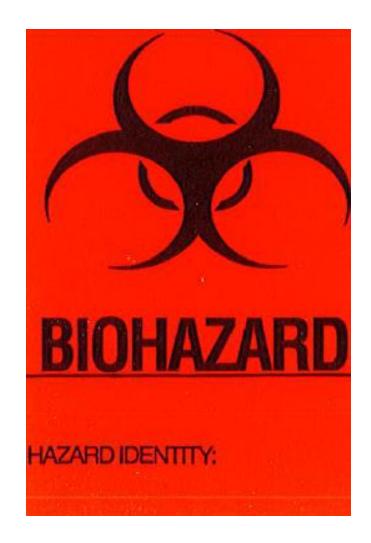
BIOHAZARD LEVEL 1 or 2 - Viruses, bacteria, or other agents including human source material at Level 1 or 2 containment, stored or used in this equipment.

Instructions:

- Caretaking: Do not move, open, or disturb equipment without permission of lab Supervisor.
- CCPS: Deal with emergencies (fire, flood, etc.) as required. Contact the Lab Supervisor immediately.
- Trades: Do not move, open or disturb equipment without permission of the Lab Staff.

Equipment must be emptied, cleaned and disinfected before maintenance or repair work is done.

* If equipment or waste containers leaking, isolate and call CCPS at 911.



Title: Caution - Biohazard Level 1Type: CautionDate:June 2019

Description of Hazard:

BIOHAZARD LEVEL 1 - Viruses, bacteria, or other agents at LEVEL 1 containment.

Instructions:

Caretaking: No restrictions on sweeping, bulb changing, drench shower testing, or checking fire equipment.

Make prior arrangements for floor buffing.

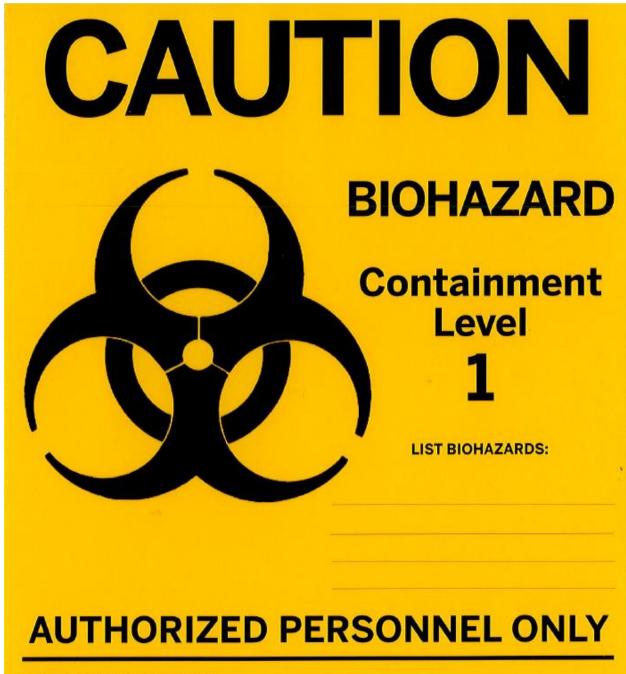
Garbage removal from regular garbage containers only- do not handle radioactive waste pails or biohazard-labelled containers.

CCPS: No restrictions on entry.

Emergencies (fire, flood, etc.) May be dealt with as required, the Lab Supervisor must be contacted immediately.

Trades: No restrictions on entry.

Do not move or re-arrange any lab equipment or containers - must be done by Lab Staff. Equipment must be clean and empty before maintenance or repair work is done.



RESPONSIBLE INVESTIGATOR: _____

IN CASE OF EMERGENCY CONTACT: _____

PHONE: _____

Western University Occupational Health & Safety

Title: Caution – Biohazard Level 2Type: CautionDate:June 2019

Description of Hazard:

BIOHAZARD LEVEL 2 - Viruses, bacteria or other agents at LEVEL 2 containment.

Instructions:

Caretaking: Do not remove labelled biohazard waste.

Each lab has individual restrictions on sweeping, garbage removal, bulb changing, and drench shower testing, and checking fire equipment.

Make prior arrangements for any of the above.

Consult with each Laboratory Research Director for instructions.

- CCPS: Do not enter unless an emergency. Deal with emergencies (fire, flood, etc.) As required. Contact the Lab Supervisor immediately.
- Trades: Do not enter unless prior arrangements are made with Lab Staff.

Do not move or re-arrange any lab equipment or containers - this must be done by Lab Staff.

Equipment must be empty, clean, and decontaminated by an approved method before maintenance or repair work is done.

After hours contact lab supervisor and/or CCPS at 911.



AUTHORIZED PERSONNEL ONLY

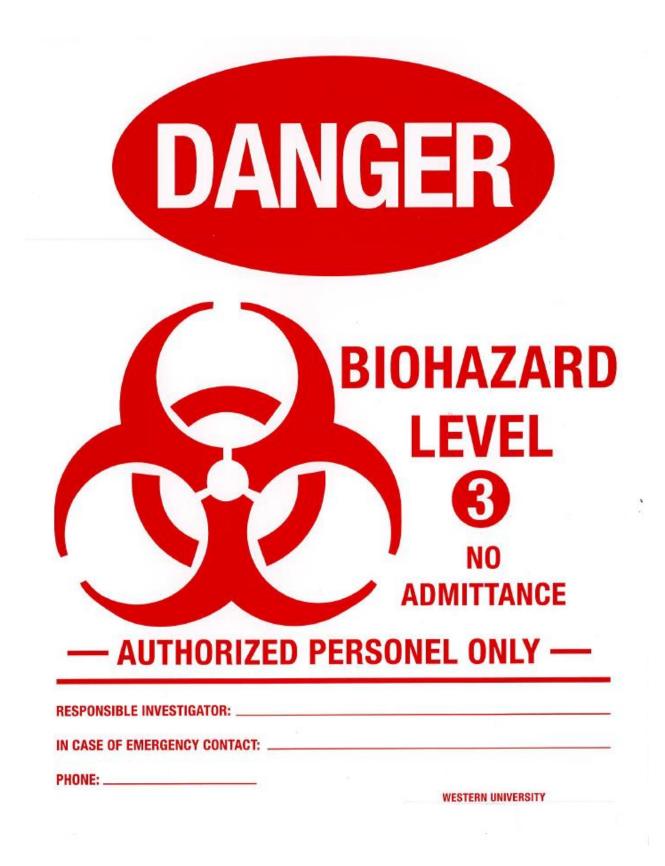
RESPONSIBLE INVESTIGATOR:

IN CASE OF EMERGENCY CONTACT: _____

PHONE: _____

Western University Occupational Health & Safety

Title: Danger – Bio	hazard Level 3	Type: Danger	Date:	June 2019
Description of Hazard:				
BIOHAZARD LEVEL 3 - Viruses, bacteria or other agents at LEVEL 3 containment.				
<u>Campus Location</u> : Dental Science Building - 6th floor Suite Refer to specific list of rooms at the end of this booklet.				booklet.
Instructions:				
Caretaking:	Do not enter unless Facility is closed down for research and is decontaminated.			
	Enter only with a Supervisor.	uthorization of Biosafety C	Officer ar	nd Laboratory
Security:	Do not enter witho	out contacting the Superviso	r or Depa	artment Chair.
In case of Emergencies (fire, flood, etc.) evacuate and secuarea.				nd secure the
Contact:	Personnel designa	ated on the Call-In list.		
Trades:	Do not enter unle decontaminated.	ess Facility is closed down	n for res	search and is
	Enter only with au	thorization of Biosafety Offic	cer or the	Supervisor.



Title: Danger – Strong magnetic FieldType: DangerDate:June 2019

Description of Hazard:

Strong Magnetic Field

- pacemaker and metal prosthetic users are at risk of serious injury or death
- ATM, credit cards and watches may be damaged

Instructions:

Caretaking: Do not enter without prior approval of lab supervisor No routine garbage removal, sweeping, dusting or bulb changing. No work in this area without lab staff in attendance

Enter with lab staff to test drench shower or check fire extinguishers.

- CCPS: Do not enter without contacting the lab supervisor or department chair.
- Trades: Do not enter without supervisor or lab staff in attendance.

Routine maintenance must be scheduled **in advance with the lab supervisor**.



STRONG MAGNETIC FIELD

Pacemaker/Prosthetic Users

Pacemaker and metal prosthetic users are at risk of serious injury or death. Such users must stay at least 4.6 meters (15 feet) away from the magnet until safety at a closer distance is identified by a physician and medical device manufacturer.

ATM/Credit Cards

The magnetic field can disable ATM and credit cards and damage watches. Keep ATM and credit cards away from the strong magnetic field.