



Last Day! Laboratory Safety Awareness Week

HAZARDOUS COMMUNICATION

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HAZARDOUS COMMUNICATION

What Hazardous Communication?

- Surprise - we've been talking about it all week!
 - Knowing and understanding your hazards
 - Research your hazards
 - Safety starts with you!

What is left to discuss today?

- New EPA regulation regarding chemicals, plus the IARC Monographs
- Discussion of real scenario from this past year
- Injury Reporting
- Fire safety

*EHS website is located at [EHS.miami@edu](https://ehs.miami.edu).

METHYLENE CHLORIDE, AKA DICHLOROMETHANE (DCM)

EPA Final Ruling under the Toxic Substances Control Act (TSCA)

Rule Prohibits Use

What is still allowed at the University?

- The rule prohibits consumer use and limits commercial use, with limited exceptions
- Laboratory use with requirements:
 - Documentation of attempts to eliminate or substitute
 - Documentation of control measures
 - Initial and periodic monitoring of personnel
 - Include in a Workplace Chemical Protection Program
 - Keep records of all above activities

Compliance Actions

What do we need to do?

- EHS has reviewed the chemical inventories; 45 instances reported
- EHS will initiate discussion with the laboratories on future use
 - Elimination (Hazmat team)
 - Use of engineering controls
 - Conduct personnel monitoring
 - Establish documentation protocol
- If you have this chemical and it is not on your inventory, please reach out to Adrian Hernandez (arh38@miami.edu)

Timeline

When do we need to do it?

- Monitoring needs to start by May 5, 2025
- Controls needs to be implemented by August 1, 2025
- Exposure Control Plan needs to be in place by October 30, 2025

• [Risk Management for Methylene Chloride | US EPA](#)

IARC MONOGRAPHS

International Agency for Research on Cancer

General Information

What are the IARC Monographs?

- Identify environmental factors that are carcinogenic to humans, including:
 - Chemicals
 - Complex mixtures
 - Occupational exposures
 - Physical agents
 - Biological agents

Recent News

Changes in classification

- Classifications

Group 1	Carcinogenic to humans	132 agents
Group 2A	Probably carcinogenic to humans	96 agents
Group 2B	Possibly carcinogenic to humans	320 agents
Group 3	Not classifiable as to its carcinogenicity to humans	499 agents

- 3 recent classifications into Group 1 (Hydrochlorothiazide, voriconazole, and tacrolimus)

SHARING INFORMATION

Read something, share something

- In coordination with the Office of the Vice Provost
- EHS examined the chemical inventories and found two instances
- Reached out to those specific laboratories
 - Do not have to eliminate or substitute
 - Can make informed decisions about the use and handling of the chemical in the laboratory

• [IARC Monographs on the Identification of Carcinogenic Hazards to Humans - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER](#)

LABORATORY CHEMICAL



AFTER HOURS CHEMICAL EXPOSURE

Methanol

Event

Inadvertent Exposure

- Time: Evening
- Day: Friday
- Event: Unplanned chemical experiment and clean-up
- Description:
 - Performed a demonstration of a laboratory experiment for another laboratory member. Afterwards, used a laboratory wash bottle to clean the area.

Exposure

Mislabeled Chemical

- Lab member stayed in the lab to clean up
- Was not feeling well during and after the clean-up process
- Went to the emergency room
- The plastic squeeze bottle was mislabeled

Corrective Actions

EHS and Laboratory

- Check with PI before performing experiments
- Verify/notify work being done outside of typical laboratory hours
- Clearly label your containers, even for temporary use
 - Wash bottles
 - Flasks
 - Sample containers
- Ensure lab members have taken Laboratory Safety through Ulearn
- Ensure PI has established laboratory specific safety procedures
- Stop work if you are experiencing a potentially unsafe condition

LABORATORY CHEMICAL

First Corrective Action Attempt



LABORATORY CHEMICAL LABELING



CHEMICAL LABELING/SECONDARY CONTAINER LABELING

Best Practices

Secondary Container	
SIGNAL WORD <input type="checkbox"/> DANGER <input type="checkbox"/> WARNING	
Hazard/Precautionary Statements	
HMIS	
HEALTH	<input type="checkbox"/>
FLAMMABILITY	<input type="checkbox"/>
INSTABILITY	<input type="checkbox"/>
PERSONAL PROTECTION	<input type="checkbox"/>



Full Chemical Name:	
<input type="text"/>	
<input type="checkbox"/>	IGNITABLE/FLAMMABLE
<input type="checkbox"/>	CORROSIVE
<input type="checkbox"/>	TOXIC/POISON
<input type="checkbox"/>	OXIDIZER
<input type="checkbox"/>	OTHER: _____
<input type="text"/> Date	

INJURY REPORTING PROCESS

ONE NUMBER for Exposure Reporting : 243-ONEU or 243-6638
Available 24/7
Follow the Prompts

Employee Health

(305) 243-3267

- For events during typical business hours, call the above number.
- Previous emergency number (305) 299-4684 is still active
- Please put the new ONEU number into your phone
- If emergency, call 911 or go to UHealth emergency department, regardless of timing
- Currently located in DRI, but anticipate a move to the West Tower at UHealth

Workers' Compensation

[Workers' Compensation | Risk Management | Business Services | University of Miami](#)

- Different from Employee Health, but soon to be co-located
- File as soon as possible after work-related incident

Student Health

(305) 284-9100

- Specifically for students
- Health and exposure
- Please put the new ONEU number into your phone

Injury Reporting Process

- Work related injuries must be reported in Workday within 24 hours of your injury or illness using a Desktop Computer or the UMiami Mobile App
- *Note: the paper and PDF University of Miami Incident/Accident Form are no longer accepted, you must report your work injury/illness in Workday*



Process for Reporting Work Related Injury/Illness:

Desktop Computer:



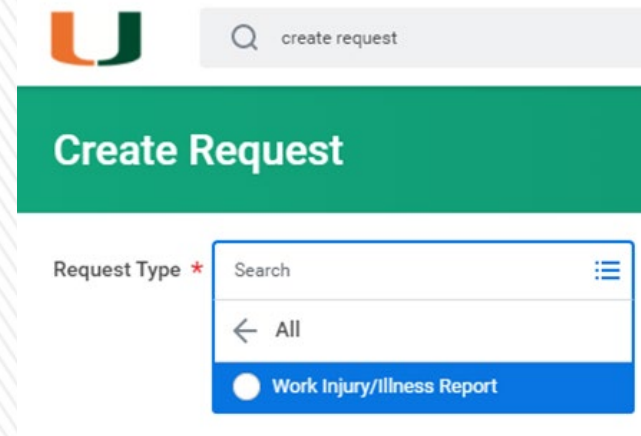
UMiami Mobile App:



For questions, please visit the workers compensation website:

<https://business-services.miami.edu/departments/risk-management/workers-compensation/index.html>

- The **Injured Employee** must log in to workday
- In the search bar, type "create request"
- Place the cursor in the empty box, and left click
- Select **all**, and then select "**Work Injury/Illness Report**"
- Fill in all of the necessary information and then **SUBMIT**



Workday Tips



Date of A

Time

sele

Accident C

Digits: (Required)

No

The Work

Please clic

Time of /

AM or

Accident C

Describe how the ac

Did you miss any days from work? (Required)

Yes

No

Depart

AM or PM

AM

PM

To Wf

Type of Inju

Did you obtain medi

Yes

No



enter your comment

Attachments

Drop files here
or
Select files

Hours

Location

Hours

Date Rep

Witne

Body Part(s)

Are you going to ob

Yes

No

Body Area (

Did you miss any da

What

Future

Submit

Save for Later

Cancel

Schedi

IN CASE OF FIRE, THE CLASSICS STILL WORK



EGRESS

- RACE
 - Rescue, Alert, Confine, Evacuate
- Know your exits
- Practice going down stairs
- How you need to leave may not be the same way you entered

FIRE EXTINGUISHERS

- There is one near you
- Only for use on small fires or to create an exit path
- Training is available
 - Pull, Aim, Squeeze and Sweep

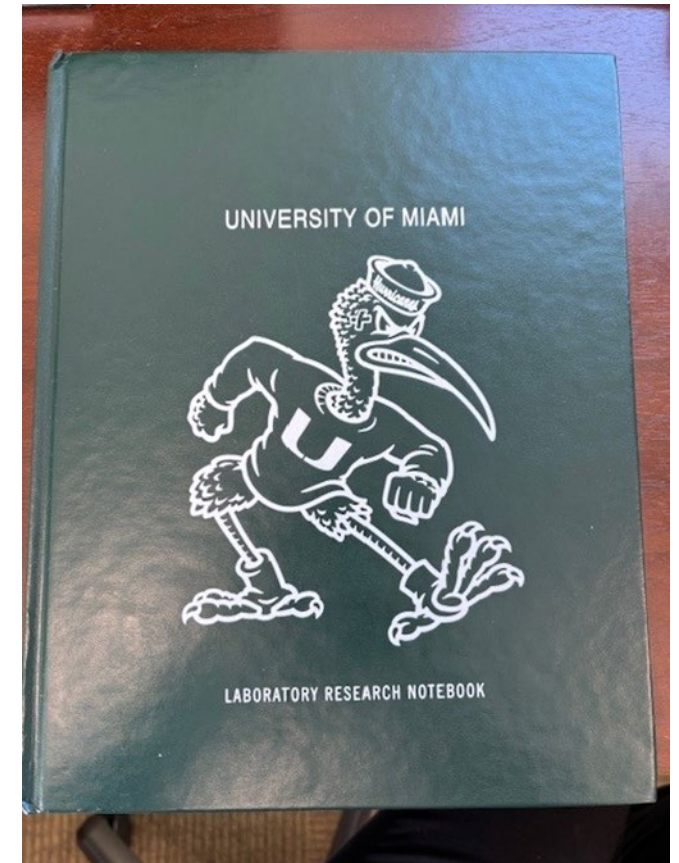
USING A FIRE EXTINGUISHER

Remember **PASS**:

- **P** Pull the pin
 - **A** Aim at the base of the fire
 - **S** Squeeze the handle
 - **S** Sweep from side to side
-
- Fire Extinguisher Training is available for your group/department/building. Email request to cdaley@miami.edu.

TODAY'S GIVEAWAY!

- Branded Laboratory Research Notebook
- Sebastian on front cover
- Hardcover
- 232 pages
- Brought to you by:
 - Office of Environmental Health & Safety
 - Office of the Vice Provost for Research & Scholarship



REMEMBER!

Subscribe to our newsletter at:

[Newsletter | Environmental Health and Safety | University of Miami](#)

Find contact information for EHS at:

[Contact Us | Environmental Health and Safety | University of Miami](#)

Safety Data Sheets are available 24/7 at:

[Safety Data Sheets | Environmental Health and Safety | University of Miami](#)

Safety at the  starts with you!





THANK U!