

UF's Chemical Hygiene Plan and Chemical Inventory

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Chemical Hygiene Plan

- Required by OSHA- 29CFR1910.1450
- You as researchers are responsible to document how you are doing your science safely

<http://www.ehs.ufl.edu/Lab/CHP/default.asp>

Chemical Hygiene Plan

- Includes:
 - Written Plan - you can use UF's as a template but it must be site/lab specific
 - Designation of Chemical Hygiene Officer for each site (Appendix A)
 - Chemical Inventory (Appendix B)
 - Standard Operating Procedures (Appendix C)
 - Training (Appendix D)
 - PPE determination and signature forms (Appendix E)

EHS web site has links to glove compatibility charts

www.ehs.ufl.edu/Lab/CHP/gloves.htm

Documentation of Training
 This form must be completed and saved as a record of the training provided to the laboratory staff as required by the UF Chemical Hygiene Plan.

Principal Investigator Dr. Robert Jones Department Soil and Water Sciences

Building 1219 Rooms 121 and 124 Phone 352-392-1219

Training provided by Suzanne Smith Date training was provided 04/20/11

Procedure and chemical(s) covered by this training New grad student orientation in to lab

Topics cover by training: (Please check)

<input checked="" type="checkbox"/> Hazard Assessment review	<input checked="" type="checkbox"/> PPE selection
<input checked="" type="checkbox"/> Standard Operating Procedure review	<input checked="" type="checkbox"/> PPE Use
<input checked="" type="checkbox"/> Chemical Hygiene Plan review	<input checked="" type="checkbox"/> Fume hood required
<input checked="" type="checkbox"/> OSHA Laboratory Standard review	<input checked="" type="checkbox"/> Biological Safety Cabinet required
<input checked="" type="checkbox"/> Procedure or process review	<input checked="" type="checkbox"/> Other exhaust systems required:
<input checked="" type="checkbox"/> Chemicals to be used	<u>Sootle</u>
<input checked="" type="checkbox"/> Chemical hazard review	<input checked="" type="checkbox"/> Shielding
<input checked="" type="checkbox"/> MSDS review (including exposure limits)	<input checked="" type="checkbox"/> Other requirements: <u>use of ultra</u>
<input checked="" type="checkbox"/> Symptoms of exposure	<u>centrifuge</u>

This training was provided by Suzanne Smith Printed name _____

 Signature

NAME	SIGNATURE	UF ID Number

CHP Importance?

- This is the document that the OSHA or other compliance officers (EH&S included) will use as a basis of that lab's chemical safety program
- Basis of all chemical and emergency procedures training for lab staff
- PPE determination and documentation
- Record keeping
- Enforced after the death of a researcher at UCLA

UF compliance requirements

- Lab Safety Surveyors looking at each CHP closely
- Email reminder to be sent at the beginning of every semester
- EHS LS required to turn in the names of PIs who are not in compliance to DSR
- EHS LS training sessions
 - PI- explaining the importance and basics of putting on together
 - Lab staff- guidance in putting one together

Chemical Safety Board CSB.gov

- Award winning 21 minute video investigations on 3 serious accidents in academia
 - Death at UCLA
 - Death at Dartmouth
 - Explosion at Texas Tech

“Experimenting with Danger”

<http://www.csb.gov/videoroom>

Importance of Chemical inventory

- Required by:
 - OSHA
 - NFPA
 - Dept of Homeland Security (DHS)
- Updated annually for all but DHS
- Not shared unless there is a need to know
 - Local responders
 - UF’s DHS CFATS stakeholders

DHS/ITAR

Chemical Inventory							
							PI UID:
							PI NAME:
User Feedback							
Description	Chemical Abstract Service (CAS) #	Volume	Units	Building1	Volume2	Unit2	Building2
1-Pentene	109-67-1						
1,1-Dimethylhydrazine	57-14-7						
1,3-Butadiene	106-99-0						
1,3-Pentadiene	504-60-9						
1-Butene	100-98-9						
1-Chloropropene	500-214-6						
1H-Tetrazole	288-94-8						
2,2-Dimethylpropane	463-82-1						
2-Butene	107-02-7						
2-Butene-cis	590-18-1						
2-Butene-trans	624-64-6						
2-Chloropropene	507-98-2						
2-Methyl-2-Butene	101-86-2						
2-Methylpropane	115-117-7						
2-Pentene, (E)	646-04-8						
2-Pentene, (Z)	627-20-3						
4-Methyl-2-Pentene	503-40-1						

DHS/ITAR Inventories

Required reports for DHS and Dept of State
(updated every 3 years)

- 325 DHS chemicals
 - Concerns about quantities and security of storage areas
- 180 ITAR chemicals
 - Concerns about who has access to and information about the chems- (some foreign nationals)

Changes!!

- CHP and Lab Safety Training
 - UF staff can sign on using MyUFL > My Self Service > Training and Development > Request Training Enrollment
 - EHS860, EHS861, EHS862
 - Students and non-UF folks need to be set up as a "person of interest" through the dept'al HR staff
 - Credit given for taking classes
- Basic CHP and Lab Safety with short specific sessions planned

Changes!

- EHS is funded for comprehensive inventory system
- Should be running within a year
 - Campus priority for now
 - Labs may need to do some input if present inventory is not Excel based
 - Annual updates will be required
- Will provide:
 - query and report capability
 - MSDSs
