

PREC LABORATORY RULES & SAFETY INSTRUCTIONS

Note: Only persons that have signed these safety instructions are allowed to work in PREC's Labs.

1. Read carefully the ETH's Safety Manual booklet der Abteilung Sicherheit, Gesundheit und Umwelt:
"How to play it safe at ETH Zurich" (E)
<https://ethz.ch/en/the-eth-zurich/organisation/departments/safety-security-health-environment/information-and-publications.html>
"Sicher unterwegs an der ETH" (D)
<https://ethz.ch/de/die-eth-zuerich/organisation/abteilungen/sicherheit-gesundheit-umwelt/mitteilungen-und-publikationen.html>
2. Before starting to work in any of the PREC-Labs, you should ask for an introduction/permission by
P. Haueter, <http://www.prec.ethz.ch/staff/person-detail.html?persid=105648>
3. If you need to use the analytics of our chemistry lab, you should ask for an introduction/permission by
B. Bulfin, <http://www.prec.ethz.ch/staff/person-detail.html?persid=210561>
4. All experimental setups require an S.O.P. (Contact P. Haueter).
5. Do not remove any components or tools from the Lab; return working tools to their assigned place.
6. Always use the right protective equipment: wear safety glasses at all times; use a dust mask when working with dusty material.
7. Keep the lab orderly and tidy; use vacuum cleaner and/or sweeper if needed.
8. Watch for safety signs and symbols.
9. Never do risky work alone.
10. Be aware of hazards; ask for advice.
11. Speak up if you see unsafe situations.
12. Enter the appropriate input to the Logbooks available for each device (Solar simulators, TG, Horiba, BET, SEM).
13. If you are planning to work on weekends or late in the evening, you are required to get approval from P. Haueter or Prof. Steinfeld.
14. In case of an emergency: call 888 and/or Prof. Steinfeld's mobile phone +41-798280811

SAFETY INSTRUCTIONS FOR USERS OF THE HIGH-FLUX SOLAR SIMULATORS (HFSS)

PERSONAL SAFETY:

1. At least 2 persons should be present during runs with the HFSS.
2. Only instructed persons may operate the HFSS.
3. Wear safety glasses at all times.
4. Entrance to the experimental compartment is only permitted when the safety shutter is fully closed.
5. Close the doors of the simulator cabinet during experiments.
6. Do not operate with more than 10% of flammable gases; use inert gas (Ar or N₂) for dilution.
7. Do not expose yourself to thermal/UV radiation emitted by the arcs.
8. Use dust mask when dust is produced.
9. After shutdown, do not access the experiment compartment unless the safety shutter is fully closed.
10. Think twice before doing any action during the experimental run.

OPERATION:

11. Report lamps being in operation and arc time in Log-book.
12. Follow exactly the start procedure on the checklist.
13. Do not leave the experimental setup unattended when cooling water running.
14. Use filters between GC and off-gas line of reactor and before vacuum pump.
15. Check that off-gas pipe is placed properly into gas exit of lab.
16. Report any unusual behavior to the staff.

I declare that I commit to follow the "LABORATORY RULES & SAFETY INSTRUCTIONS"

Name: _____ Signature: _____ Date: _____