It is highly recommended that pregnant women, avoid working with all processes involving resists and solvents.

It is your immediate manager/supervisor/course manager’s responsibility to initiate a risk assessment of your work. It can be done by yourself in conjunction with your manager, your safety representative or DTU Work Environment (ABB). There are several types of risks for you as pregnant / nursing, and every aspects must be taken into account in the assessment.

For more information see "Pregnancy and Nursing Women – Work Environment " which is available at portalen on the ABB page.

**Working with HF/BHF:** Outside normal working hours (mon-friday 8am-4pm) You are not allowed to handle (this means all work in fume hoods) chemicals containing HF or BHF. (You are allowed to use the dedicated HF/BHF bath in wet benches, but then the rules from "working with problematic chemistry" are followed.

**Working with problematic chemicals**: Outside normal working hours (mon-friday 8am-4pm) you are not allowed to work with any problematic wet chemistry or to enter the service areas if you are alone in the cleanroom. If you mix, move or pour problematic chemicals there has to be a person in the same room as you. For work involving HF/BHF, there are special rules, see section "working with HF/BHF above.

If a User does not comply with Danchip’s regulations, Danchip can deny cleanroom access for a shorter or a longer period and in some cases Danchip can require the user to follow the Safety Course again before the right to access is re-established.

**For Danchip staff only:** When working with hazardous gases, high current and problematic chemicals, there always has to be 2 persons present.

* **Problematic chemicals** =

![Problematic chemicals]

**Personal safety**

**In the Cleanroom**

- While working at the wet benches (dipping wafers into the bath) you should always wear a barrier glove on at least one hand, and safety glasses (ordinary glasses are not sufficient) or a faceshield!
- Working in the fume hood: When working with problematic chemicals in the fumehood, always wear faceshield or safety glasses (ordinary glasses are not sufficient), apron and barrier gloves on both hands
- Follow the signs in the fumehood, and always work with the sash at chest level (lowest level possible)
- All chemicals must be approved and marked with Danish labels. You can ask for approval and order labels from Majken Becker
- Only one setup at a time in the fumehood. If you need to make a setup while another person is already working there, ask for permission by wet chemistry or a laboratory technicians. And never Work with solvents and *oxidizers* at the same time!!
- Always remember to examine the barrier gloves for defects before and after use
- Discard barrier gloves and apron if you get chemicals on them or if you find defects (holes etc).
- Leave the fumehood with the sash down
- It is not allowed to leave chemicals with heat on during the night.
- Before you make a setup in the fume hoods, always make a note with your name, date and the contents on the laminated sheets which you find by the fume hoods. Tick the appropriate hazard classes.
- Empty and rinse the beakers after use and put them back in place
- Always wipe up drops of water or chemicals
- Rinse empty chemical bottles with water in the fume hood. After that you put it on the bottle rinse in the Gowning room and cross out the hazard warnings before you throw it out.
- If the chemical are non soluble in water, please throw the empty bottle out in the solid C waste bin in CX1
- Whilst transporting chemicals, always use a trolley. Only Danchip staff are allowed to pour problematic chemicals outside the fumehood
- Inside the fume hoods it is permitted to pour chemicals manually. For more information read APV and manuals for fume hoods in the cleanroom
- Never sit in front of the fume hood when you work there

At all times, when you see the sign with pictograms, follow the instruction on it!!!!!!!!!

In the workshop and the laboratories on 1. floor in building 346
- Nitrile gloves are used to avoid direct contact with the skin.
- Always use safety glasses when working with chemicals.
- Barrier gloves, safety glasses or face shield and apron, are always to be used when working with problematic chemicals*

In case of an accident.
- Eye rinse bottles can be found hanging on the walls, in clearly marked positions close to where you are working with chemicals.
- Emergency showers are placed near by where you work with chemicals (please notice their position when you enter the cleanroom or lab), in the labs on 2nd floor of building 346 and also by the toilet in room 043.
- In case of chemical spillages larger than 10 x 10 cm and any HF spillages outside of the fume hood please inform a Danchip employee immediately. If this is not possible activate the evacuation alarm.
- First aid boxes can be found at 15m intervals in the corridors outside of the cleanroom. They are easily identifiable and are labelled with a green background with a cross. They can also be seen clearly marked on the emergency plan.

Chemical disposal
- Hot acid/bases must be cooled below 40°C before you suck it up with the acid aspirator device
- It is permitted to throw out acids and bases in the sink inside the fume hood if they are cooled down to below 40°C. Flush with plenty of water afterwards.
- If the solvent is a C-waste (look on the list or in the SDS in kemibrug), it is ok to dispose it in the dedicated bottle. Otherwise, it must be collected and placed in a separate bottle in the chemical waste cupboard in the basement, clearly marked with your initials, phone number along with contents and concentration.