

Safety in the chemical laboratory

CHEMTEACH



Protective clothing and equipment



Lab coat



Lab pants



Lab shoes



Gloves



Glasses



Pipetting balloon



Safety in the lab starts before entering the lab!

1. Assessment of the risk when working with dangerous chemical factors

2. Training on employee safety – 6 hours

3. Training on students safety – 3 hours



What is forbidden for students?

Regulation (EC) No 1272/2008

1. carcinogenic chemicals

2. mutagenic chemicals

3. teratogenic chemicals



What is forbidden for students?

Regulation (EC) No 1272/2008

4. H300, H310, H330

5. H301, H311, H331

6. H370, H372



So what can't our students use in a chemistry lab?

- aniline
- borax (sodium borate)
 - declaration that the woman is not pregnant
- Co(II)
- Cd(II)
- Cr(IV), Cr(VI)
- formaldehyde
- Hg, Hg(I), Hg(II)
- heavy metals
- hydrogen cyanide
- methanol
- methyl orange
 - allowed only in solution
- Ni(II)
- phenolphthalein
 - allowed only in solution
- phenol
- potassium iodide (!)
 - the exception for chem. schools
- potassium bromate



What about the waste?

1. Heavy metals and inorganic waste

2. Organic waste – non-chlorinated

3. Organic waste - chlorinated



Remember
Safety first

