Date: 23.02.2021 Authorized user: Stefan Ostendorp (39060)

Work area: Deposition

Workplace:

Room 2.23 CeNTech I

Safety Instruction Cambridge NanoTech Savannah 100 ALD

WWU
Münster Nanofabrication
Facility (MNF)
Center for Nanotechnology
(CeNTech)
Heisenbergstraße 11
48149 Münster

Range of Application	
Operation atomic layer deposition	
Hazard for People and the environment	
 Process gases. Mortal danger when toxic gases are inhaled. Suffocating in high concentrations. There can be flammable gases inside the machine. Vacuum chambers can present an implosion hazard. Hot components: danger by burn. Risk of explosion of pressurized gas bottles 	
Safety Measures and Rules of Behavior	
 Operating the machine is only allowed after previous instructions and knowledge of the manual of Savannah 100 ALD as well as the safety data sheets of the used gases/precursors. Vacuum systems must be flushed thoroughly with nitrogen before opening. Preursor reservoir headspace must be flushed with nitrogen after every use. The reactor must be cleaned after very use. Maintenance work at vacuum systems only after authorization. Adequate personal protective equipment has to be worn. In case of any unclear issues contact the responsible person (Stefan Ostendorp, Tel. 	
39060).	
Action in Failure	
• In case of any malfunction or abnormality turn off the machine (keep the vacuum pump running) and secure against starting up and inform the responsible person.	
Action in Accident, First Aid	
 After inhalation: get fresh air, immediately consult a doctor. Inform appointed first aider. Immediately treat small injuries. Enter data in the accident book. In case of severe injuries call an emergency doctor (phone 112). Inform your superior advisor. 	
Maintenance and Disposal	
 Maintenance work may only be carried out by qualified and instructed staff. Please consider rules about disposal of contaminated material 	