







<p>Date: 06.02.2019          Author: A. Eich          Work area: Photolithography          Workplace: Room 100.030h</p>	<h1>Safety Instruction</h1> <h2>EVG 620 NT Mask Aligner</h2>	<p>WWU          Münster Nanofabrication          Facility (MNF)          Center for Soft Nanoscience          (SoN)          Busso-Peus-Str. 10          48149 Münster</p>
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Range of Application		
Working with UV-Lithography, operating under high voltage		
Hazard for People and the environment		
	<ul style="list-style-type: none"> <li>Overheating of the instrument</li> <li>Risk of burn by hot surfaces and UV-radiation</li> <li>Risk of eye damage by infrared or ultraviolet light radiation</li> <li>Risk of shock due to high voltage electrical discharge</li> <li>Danger from mercury emission (in the UV-Lamp)</li> <li>Choking hazard from Nitrogen gas</li> <li>Risk of explosion of the UV-Lamp due to mechanical impact or temperature shock to the hot lamp</li> <li>Risk of injury by moving components</li> </ul>	
Safety Measures and Rules of Behavior		
	<ul style="list-style-type: none"> <li><b>The instrument is to be used only by designated Persons</b></li> <li>No improper handling of switches, buttons etc.</li> <li>Running of the instrument only under supervision</li> <li>Constantly observe vacuum, nitrogen and pressured air pressure indicators</li> <li>Do not damage service connections</li> <li>Whilst working in the interior of the machine or change components use clean and dust free gloves</li> <li>Use emergency stop at the machine in an emergency</li> <li>In extreme cases, trigger emergency stop at the entrance door: Attention, the system is thereby put into an uncontrolled state with very high damage potential</li> <li>Follow the instruction manual of the manufacturer</li> <li>Instruct people within the laboratory about potential hazards</li> </ul>	
Action in Failure		
<ul style="list-style-type: none"> <li><b>Press stop button of UV-Lamp, wait 10 minutes, circuit breaker on the ULPC to OFF, push the OFF button on the ON/OFF button, turn the main switch to its OFF position, close gas valves</b></li> <li><b>Contact supervisor</b></li> </ul>		
Action in Accident, First Aid		
	<ul style="list-style-type: none"> <li><b>Protect yourself and remove injured people out of the danger area, react quickly, involve primary responsible person,</b></li> <li><b>Call emergency services (112)</b></li> <li>If important, switch off the instrument by the emergency stop button at the machine</li> <li>Firefighting only with CO<sub>2</sub> fire extinguisher</li> <li>Report accident</li> </ul>	
Maintenance and Disposal		
Maintenance only with original spare parts Instrument must be repaired only by authorized persons		
Consequences in Nonobservance		
Damage to the instrument, malfunction, costly damage		