

Doc no: CIBA/RA/Exp/004

Experiment - Based Risk Assessment Form

Name of Department

Physics

Location of Lab

S7-01-08

Name of Laboratory

CIBA/ESP Nano Fabrication lab

Name of PI

Asst Prof Jeroen Van Kan

Name of Researcher/LO

Liu Fan & HueiMing

Name of Activity/Experiment

Poly-dimethylsiloxane (PDMS) casting/Bonding

1. Hazard Identification				2. Access the Risk			3. Risk Control			
No	Description/Details of Steps in Activity	Hazards	Possible Accident / Ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
1	Stamp cleaning	IPA or acetone	IPA/acetone is irritating to respiratory system.	Wear mask and operating in fumehood	1	2	2			
2	Degassing PDMS prepolymer in desiccator	vacuum glass chamber	Heavy glass desiccators	Fixed glass desiccators on a secure surface	2	1	2			
3	Curing PDMS in oven	thermal oven	Thermal effects can burn skin	Setting thermometer to monitor the temperature	1	1	1			
4	Cleaning cured PDMS	IPA or ethanol	IPA is irritating to respiratory system	Wear mask and operate in fume hood	1	2	2			
5	Oxygen Plasma etching	UV light	Naked eye exposure	wear goggle when looking at the side chamber	1	1	1			

Conducted By HueiMing, Liu Fan, Ying Hui, John

Approved By

Name Asst Prof Jeroen Van Kan

Signature

First Revision Date: 31/10/2011

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Next Revision date 30/10/2014 (Maximum 3 years)

