

NATIONAL UNIVERSITY OF SINGAPORE

Experiment-Based Risk Assessment Form			
Name of Department	Physics	Location of Lab	S7-01-01A & S7 01-08
Name of Laboratory	CIBA cleanroom & ESP nano fab lab	Name of PI	Asst Prof Jeroen Anton Van Kan
Name of Researcher/LO	Liu Fan, Wang Yinghui and Hwei Ming	Name of Activity/Experiment	Spin coating

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	spin coating samples	samples spinning at high speed	samples may spin off the chuck and cause injuries. Chemicals on the sample may splash onto user. Depending on chemicals used, this may cause skin irritation to burns, may even injure the eyes	Wear safety goggles for eye protections. The spin coater itself has a safety interlock system whereby no spinning can be carried out if the safety lid is not closed. This will prevent splashing of chemicals as well as samples flying off the chuck to cause injuries	1	1	1			
2	spin coating samples	chemical hazards	fumes inhaled	spin coater placed in a exhausted box, make sure there is enough exhaust and the box is closed as much as possible to increase the flow rate of the exhaust	2	1	2			
3	use of spin coating machine	chemical hazards	used resists and chemicals left on the spin coater can prevent the machine from working properly	always clean up the spin coating platform and change the Aluminum foil after usage Use gloves to clean after usage	1	1	1			
4							0			
5							0			
6							0			
7							0			
8							0			
9							0			
10							0			

Conducted By HweiMing, Malar, Raman, Sara, Yao Yong, Sudheer, LiuFan,

Malli, Zhiya, SongJiao, Haidong, YingHui, John

Approved By

Name Asst Prof Jeroen Anton Van Kan

Signature \_\_\_\_\_

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(Maximum 3 years)