

NATIONAL UNIVERSITY OF SINGAPORE

Experiment-Based Risk Assessment Form			
Name of Department	Physics	Location of Lab	s07-01-01A/S07-01-09/S7 01-08
Name of Laboratory	CIBA Clean room & chem room	Name of PI	Van Kan, Jeroen Anton
Name of Researcher/LO	Liu Fan, Malar	Name of Activity/Experiment	Chemical treatment of resist samples and handling of chemicals

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	Developing sample, Removal of the polymer, Disposal of used chemical	Flammable chemical, Irritant	Skin, eye damage	Prevent from spill of the chemicals. Always do the process in fume hood. Put back the main chemical container in proper place. Dispose wastes in labelled waste bottles separately.	2	1	2	Only AZ development and Cr etching are allowed in ESP lab (S7 01-08)		
2	Baking of the sample	Hot surface	Hands Get burned by the hot surface	Turn off the hot plate right after using it	2	1	2			
3	Transferring chemical from one place to another	Chemical Spillage	Eye or skin contact of solution spilled out may cause injury	Use trolley to move chemicals from one to another location after securing the chemical container in a	2	1	2			
4	Handling breakable materials	Glass breakage, sharp objects	Cut injuries	Dispose broken materials in sharps bin	2	1	2			

Conducted By Sudheer, Malar, Liu Fan, YingHui, Sara, Jianfeng,

Yao Yong, Raman, Zhiya, SongJiao, HueiMing

Approved By

Name Van Kan, Jeroen Anton

Signature _____

Approval date 31/10/2011

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