

NATIONAL UNIVERSITY OF SINGAPORE

CIBARAE016		Experiment-Based Risk Assessment Form	
Name of Department	Physics	Location of Lab	S7-01-09
Name of Laboratory	CIBA chemistry lab	Name of PI	Mark Breese
Name of Researcher/LO	Liang Haidong	Name of Activity/Experiment	removal of positive polymer resists

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	Taking out Nanostripper and pouring into the beaker	Highly concentrated Sulphuric Acid-based Chemical	Chemical burns to skin and eyes	1. Proper PPE (labcoat, gloves, eye protection and masks) to be worn at all the times 2. Pouring into the beaker should be done in the fume hood	2	1	2		Liang Haidong	10/11/2010
5	Nanostripper removal of polymer resists	Highly concentrated Sulphuric Acid-based Chemical	Chemical burns to skin and eyes	1. Experiment be done in the fume hood all the time 2. Proper PPE (labcoat, gloves, eye protection and masks) to be worn at all the times 3. Proper notices to inform other users of fume hood when the chemical is in used	2	1	2		Liang Haidong	10/11/2010
6	Handling the waste	Highly concentrated Sulphuric Acid-based Chemical	1. Chemical burns to skin and eyes 2. heating of the waste bottle	1. proper PPE (gloves, eye protection and masks) to be worn at all times 2. 70% close the waste bottle	2	1	2		Liang Haidong	10/11/2010
7							0			
8							0			
9							0			
10							0			

Conducted By Liang Haidong

Approved By

Name Mark Breese
 Signature _____
 Approval date _____ Next Revision date _____

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(Maximum 3 years)