

NATIONAL UNIVERSITY OF SINGAPORE

Experiment-Based Risk Assessment Form			
Name of Department	PHYSICS	Location of Lab	S11-02-09
Name of Laboratory	CIBA Optical Materials & Devices Lab	Name of PI	Asst Prof Andrew Bettiol
Name of Researcher/LO	Yan Yuanjun, Shuvan Prashant Turaga	Name of Activity/Experiment	Ag electroless plating

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	Prepare silver nitrate solution	1. silver nitrate chemical hazard	1. causes severe skin burns if contacted.	1. conduct the experiment in a fume hood. 2. wear protective gloves/protective clothing/eye protection/face protection.	3	1	3			
			2. cause severe eye damage.	1. conduct the experiment in a fume hood. 2. wear protective eye goggles.	3	1	3			
2		2. fire hazard	1. contact with combustible material may cause fire.	1. keep away from combustible material. 2. fire control.	2	1	2			
	mixing ammonia solution	1. ammonium hydroxide chemical hazard	1. eye contact will lead to serious eye damage.	1. conduct the experiment in a fume hood. 2. wear protective eye goggles.	3	1	3			
			1. toxic if swallowed. 2. harmful if inhaled.	1. conduct the experiment in a fume hood. 2. wear protective masks	3	1	3			
1			1. harmful if contacted with skin.	1. conduct the experiment in a fume hood. 2. wear protective gloves/protective clothing/face protection.	3	1	3			

Conducted By Yan Yuanjun
Shuvan Prashant Turaga

Approved By
 Name Asst Prof Andrew Bettiol
 Signature _____
 Approval date 1-Nov-11 Next Revision date 30-Oct-14
 (Maximum 3 years)