NATIONAL UNIVERSITY OF SINGAPORE FACULTY OF SCIENCE

Experiment-Based Risk Assessment Form										
	Name of Department	Chemistry	•	Location of Lab		S7-04				
Name of Laboratory Name of Lab Officer				_Name of PI (lecturer-in-charge) _Name of Activity/Experiment		Dr. Chng Yong Sheng CM5176 GIST (Sem 1) Complexometric Titration of Copper				
No	Description / Details of Steps in Activity	Hazard(s)	Possible Accident(s) or ill Health, and Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
1	In either an Erlenmeyer flask or a beaker, the CuSO4 solution (exactly 25 mL) is diluted with 20-25 mL of deionized water	CuSO4 solution: Toxic	Harmful if swallowed or inhaled	No eating or drinking in lab, use in fume hood	2	1	2			
		CuSO4 solution: Irritant	Irritating to eyes and skin	Wear gloves, safety glasses, long pants, covered shoes and lab coat	1	1	1			
2	To this add dropwise 12% ammonia, (1-3 mL) using a plastic dropper	12 % NH3 solution: Toxic	Harmful if swallowed or inhaled	No eating or drinking in lab, use in fume hood	2	1	2			
		12 % NH3 solution: Irritant	Irritant to nose, eyes and skin	Use in fume hood, Wear gloves, safety glasses, long pants, covered shoes and lab coat	2	1	2			
3	Titrate with 0.1 mol/L EDTA solution (50 mL)	EDTA Solution: Toxic	Harmful if swallowed or inhaled	No eating or drinking in lab, use in fume hood	2	1	2			
		EDTA Solution: Irritant	Irritating to eyes and skin	Wear gloves, safety glasses, long pants, covered shoes and lab coat	2	1	2			
		Broken glassware	Cuts from broken glassware	Check glassware before using, handle glassware appropriately, secure burette with clamp,	2	1	2			

Conducted By

Name Dr. Chng Yong Sheng Signature 1/6/2022 Date

Approved By

Name Assoc Prof Yeo Boon Siang Signature mon Next Revision date Approval date 1-Jun-22 31-May-25 (Maximum 3 years)