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Title of Research / Activity

**Assessor Name** 

# FACULTY OF CHEMICAL ENGINEERING & TECHNOLOGY (CHEMICAL DEPARTMENT)

#### **COSHH Risk Assessment**

A Control of Substances Hazardous to Health (COSHH) risk assessment is required for work with hazardous substances including liquids, solids, fumes, dust, vapours, fibres, nano-particles, mists, gases and biological agents such as bacteria and viruses. The form should be completed electronically and approved and signed by the responsible person and authorized personnel. Please refer to hazardous chemicals to health listed in Schedule 1, Schedule 2 and 3 of Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health Regulations 2000, as well as Section 32 of Occupational Safety and Health Act 1994, Section 33 of Environmental Quality Act 1974 and Biosafety Act 2007.

Department / Faculty	
Date of Assessment	
Laboratory Name(s)	
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Section 1: Project or Activi	
1.1: Brief description of project or	activity

### Section 2: Hazards/Biohazards Identification

(Please refer to Safety Data Sheet or hazard signage)

No.	Item name	Name hazardous substance/ composition	CAS No	Physical Form	Pictogram	Hazard Category (High Severity)
1.						
2.						
3.						

Note: Hazard signage on chemical/biological or SDS (Pictogram) – Please remark with the number.

	<b>(4)</b>		$\Diamond$				<b>(!)</b>	*	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.

#### **Section 3: Risks Assessment**

(Please refer to Safety Data Sheet/CSDS/MSDS or hazard signage)

Risks Index = Exposure Rating x Hazard Rating if accident or incident

No.	Item Name	Exposure Rating	Hazard Rating	Risks Index	Risk Level (Low/ Medium/ High)	Biosafety Level ( <i>For</i> Biohazard items)
1.						
2.						
3.						

#### Note:

- I) Exposure Rating Hazard Rating Risks Index & Risk Level
  - 1 : one per year 1 : No hazard identify 1- 3 (Low)
  - 2 : every month 2 : Irritant 4 8 (Medium)
  - 3 : every week 3 : Harmful/corrosive/flammable/explosive 9 16 (High)
  - 4: every day 4: Very toxic/toxic//carcinogenic/teratogenic/mutagenic
- II) Biosafety Level (BSL)
  - BSL 1 Low risk to personnel and the environment
  - BSL 2 Moderate risk to personnel and the environment
  - BSL 3 Serious disease for human, animal or plant (not spread by casual contact)
  - $BSL\ 4-Very\ serious\ disease\ for\ human,\ animal\ or\ plant\ (often\ untreatable)$

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## **Section 4 : Controls/Treatment to Reduce Risks**

4.1: Co	ntainment								
Laborato	ory Room □	Controlled area □	Total containment	Glove box	Fume cupboard	Local e ventilatio	n (LEV)	Access control	Other
Select all the	nat apply:								
Remarks:	(Details of control	l measures will be	taken)						
4.2: Ot	her controls								
Remarks:	(Details of other c	control measures	will be taken)						
4.3: Sto	orage of hazar	dous substan	ces						
Remarks.									
4.4: Inc	compatible ma	iterials and c	ondition to a	void					
No.		Item Name		Inc	Incompatible Materials		Condition To Avoid		
1.									
2.									
3.									
4.5: Pe	rsonal protecti	ive equipmen	t (PPE)						
No.		Item Name				Require	d PPE		
1.									
2.									
3.									

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**Section 5: Emergency Procedures** 

5.1: En	5.1: Emergency procedures						
5.2: Sp	oillage or re	lease					
Specify p	procedure						
Other act	tions	Evacuat	e and secure lab	oratory / area			Yes □
		Inform	competent perso	on (e.g. Labora	tory Incharge/ school sa	fety officer etc)	Yes □
5.3: Fin	re Precauti	ons (Extin	nguishing med	łia)			
Carbon d	lioxide 🗆	Water □	Powder □	Foam $\square$	Blanket □ Autom	atic fire suppression	□ Other □
5.4: Fi	rst aid						
<b>3.4.</b> FII	ist aid						
No.			Item 1	Name		First A	id Measures
1.							
2.							
3.							

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5.5: Emergency Contacts		1 11/30 0 01
	I	
Name	Relation / Position	Contact Number
1.		
2.		
3.		

**Section 6 : Approval** 

6.1: Assessor of Chemical Hazards/ Biohazards							
Name	Signature	Date					
1.							
6.2: Main Supervisor / Responsib	ble Person						
Name	Signature & Stamp	Date					
1.							
(Supervisor/ responsible person)							
2.							
(Laboratory chief)							
3.							
(Laboratory Manager/ Assistant Laboratory Manager/Vocational Training Officer)							