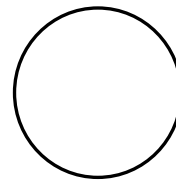




**INSTITUTE OF CLIMATE ADAPTATION AND  
MARINE BIOTECHNOLOGY  
UNIVERSITY MALAYSIA TERENGGANU  
21030 KUALA NERUS, TERENGGANU**



Phone: +609-6683661, Fax: +609-6683105

**KAWALAN BAHAN-BAHAN HAZARD KEPADA KESIHATAN  
DAN PENILAIAN RISIKO  
(Control of Substances Hazardous to Health)**

Kawalan Bahan Hazard Kepada Kesihatan (COSHH) dan penilaian risiko diperlukan untuk mengendalikan bahan yang berbahaya termasuk bahan-bahan sumber, produk, bahan perantaraan yang diketahui dan hasil-hasil sampingan. Semua bahan kimia yang hendak digunakan di dalam makmal mestilah diakui dari segi tahap keselamatan dan kesihatan. Borang perlu diisi dan ditandatangani oleh orang yang bertanggungjawab. Sebelum mengisi borang ini, sila rujuk kepada MSDS untuk maklumat terperinci.

***(Control of Substances Hazardous to Health (COSHH) and risk assessment are required to handle hazardous materials including source materials, products, known intermediate materials and by-products. All chemicals to be used in the laboratory must be recognized in terms of safety and health. The form must be completed and signed by the person in charge. Before completing this form, please refer to the MSDS for detailed information.)***

<b>Individu Bertanggungjawab</b> <i>Responsible Person</i>			
<b>ID Pelajar</b> <i>Student ID</i>		<b>No. Telefon</b> <i>Phone No.</i>	
<b>Program</b> <i>Programme</i>			
<b>Tempoh projek</b> <i>Project Duration</i>	<b>From:</b>	<b>To:</b>	
<b>Tajuk projek</b> <i>Project Title</i>			
<b>Lokasi Kerja (Nama Makmal)</b> <i>Lab/Work Station/Location</i>	<input type="checkbox"/> Genomic/ Proteomic/ Immunology lab <input type="checkbox"/> Natural Product <input type="checkbox"/> Histology/ Animal House/Autopsy <input type="checkbox"/> Animal Tissue Cell Culture lab <input type="checkbox"/> Microbiology lab <input type="checkbox"/> Special Project lab <input type="checkbox"/> Bioinformatics lab <input type="checkbox"/> Climate Change lab <input type="checkbox"/> Preparation lab 1 - Main Building <input type="checkbox"/> Preparation lab 2- Natural Product  <input type="checkbox"/> Other (s)  .....		

**Bahagian 1 (Part 1) : Projek/Aktiviti (Project/ Activity)**

**1.1 : Keterangan Ringkas Projek/Aktiviti (atau lampirkan kaedah kerja)**

*Brief Description of Project/Activity (or attach working method)*

**Bahagian 2 (Part 2): Maklumat Hazard & Risiko (Risk/ Hazard Information)**

<b>Nama Bahan</b> <i>Material Name</i>				
Toxicological Information (very toxic, carcinogen / mutagen / teratogenic / acute and others)				
Phrase Security & Phrase Risk				
Budget Quantity Consumption /Year				
Permissible Exposure Level (PEL)				
Physiochemical properties (Flammable/ Material Explosive/Oxidized)				
Other Information				

<b>Nama Bahan</b> <i>Material Name</i>				
Toxicological Information (very toxic, carcinogen / mutagen / teratogenic / acute and others)				
Phrase Security & Phrase Risk				
Budget Quantity Consumption /Year				
Permissible Exposure Level (PEL)				
Physiochemical properties (Flammable/ Material Explosive/Oxidized)				
Other Information				

**Bahagian 3 (Part 3): Penilaian & Kawalan Risiko (Risk Assessment & Control)**

Severity Level	Severity	Risk Index	Risk Rate
1. Very Low (Once A Year) 2. Low (Monthly) 3. High (Weekly) 4. Very High (Everyday)	1. Injury/first aid 2. Temporary disable 3. Kronik (>4 days MC) 4. Dead/ Permanent disable	1-6 7-12 13-16	L Low M Medium H High

**3.1 Kaedah Penilaian Risiko Kuantitatif (Quantitative Risk Assessment Methods)**

**Indeks Risiko = Tahap Pendedahan x Tahap Keterukan**  
**(Risk Index = Level of Exposure x Severity Level)**

Material Name	Level of Exposure	Severity	Risk Index	Risk Rate (L/M/H)

**Bahagian 4: Pelan Kecemasan & Pertolongan Cemas**  
**Part 4: Emergency Plan & First Aid**

<b>Chemicals</b>	<b>Minor Spills</b>	<b>Emergency Action</b>	<b>Fire Precaution</b>
	Prosedur untuk tumpahan minor:	Kulit: Penyedutan : Mata : Tertelan :	Karbon dioksida/Serbuk cecair/ Buih/ Lain-lain

Nota:

- 1) Major Spill – > 2.5 L, Report to Staff
- 2) Minor Spill – < 2.5 L, Simple Cleaning Procedure

**Bahagian 5: Individu Untuk Dihubungi Sewaktu Kecemasan**  
**Part 5: Individuals to Contact during an Emergency**

<b>Name</b>	
<b>Address</b>	
<b>Phone Number</b>	
<b>Relationship</b>	

**Bahagian 6: Kelulusan**  
**Part 6: Approval**

APPROVAL/KELULUSAN		
<b>Individu Bertanggungjawab</b> Responsible Person	<b>Penyelia Projek</b> Project Supervisor	<b>Pegawai Makmal</b> Lab Officer
Disediakan Oleh: Prepare by:	Disahkan Oleh: Verified by	Diluluskan Oleh : Approved by
Tandatangan/ Signature:	Tandatangan/ Signature:	Tandatangan/ Signature:
Tarikh/date:	Tarikh/ date:	Tarikh/ date:

**\*Prosedur pengendalian khas untuk cyanide & mercury (Sila maklumkan kepada Pegawai di makmal berkaitan)**  
**Special handling procedures for cyanide and Mercury (Please inform In Charge Officer at the relevant laboratory)**

**Catatan/ Note:**

--