



**INSTITUTE OF MARINE BIOTECHNOLOGY**  
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## **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>No. Matrics/ No. IC</b> <i>Matric No./IC No.</i>		<b>No. Telefon</b> <i>Phone No.</i>	
<b>Program</b> <i>Programme</i>			
<b>Semesta/Sesi</b>			
<b>Tajuk Projek</b> <i>Project Title</i>			
<b>Lokasi Kerja (Nama Makmal)</b> <i>Lab/Work Station/Location</i>	<input type="checkbox"/> Natural Product <input type="checkbox"/> Microbiology <input type="checkbox"/> Animal Cell Culture <input type="checkbox"/> Bioinformatics <input type="checkbox"/> Genomic/ Proteomic <input type="checkbox"/> Immunology <input type="checkbox"/> Bio-Toxico Analysis/ Histology <input type="checkbox"/> Animal House <input type="checkbox"/> Wet Lab <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 Material Name</b>				
Toxicological Information (very toxic, carcinogen / mutagen / teratogenic / acute and others)				
Phrase Security & Phrase Risk				
Budget Quantity Consumption /Year				
Had Disclosure Yang Allowed				
Physiochemical properties (Flammable/ Material Explosive/Oxidized)				
Other Informations				

<b>Nama Bahan Material Name</b>				
Toxicological Information (very toxic, carcinogen / mutagen / teratogenic / acute and others)				
Phrase Security & Phrase Risk				
Budget Quantity Consumption /Year				
Had Disclosure Yang Allowed				
Physiochemical properties (Flammable/ Material Explosive/Oxidized)				
Other Informations				

### 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*)

Nama Bahan Material Name	Tahap Pendedahan Level of Exposure	Keterukan Severity	Indeks Risiko Risk Index	Kadar Risiko (L/M/H) Risk Rate

#### 3.2 Kawalan Risiko (Untuk Kadar Rendah dan Sederhana Sahaja) –Rujuk Kepada Bahagian 3.1 *Risk Control (Low and Medium Level Only)*

Bahan-bahan Kimia dan Hazard Chemicals and hazards	Hierarki Kawalan (Sila Tanda ) <i>Hierarchy of Control (Tick)</i>					
	Penghapusan Dispose	Penggantian Replacement	Pengasingan Isolation	Kawalan Kejuruteraan Engineering Control	Kawalan Pengurusan Management Control	PPE

## Bahagian 4: Pelan Kecemasan & Pertolongan Cemas

### Part 4: Emergency Plan & First Aid

Bahan-bahan Kimia Chemicals	Tumpahan Minor <i>Minor Spills</i>	Tindakan Kecemasan <i>Emergency Action</i>	Langkah Berjaga-jaga Kebakaran <i>Precaution Fire</i>
	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>Nama Name</b>	
<b>Alamat Address</b>	
<b>No. Telefon Phone Number</b>	
<b>Hubungan Relationship</b>	

## Bahagian 6 : Kelulusan

### Part 6: Approval

<b>Individu Bertanggungjawab Responsible Person</b>	<b>Penyelia Projek Project Supervisor</b>	<b>Pegawai Makmal Lab Officer</b>
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:

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