










Chemical Agents Risk Assessment – Part 1 of 3			
Division: Acute Hospital		Source of Risk: Risk assessment	
HG/CHO/NAS/Function: RCSI Hospital Group		Primary Impact Category: Harm to a Person/Compliance	
Hospital Site / Service: ABC Hospital		Risk Type: Operational	
Dept/Service Site : Histology Laboratory		Name of Risk Owner (BLOCKS): Joe Black	
Date of Assessment: 17/9/2018		Signature of Risk Owner: Joe Black	
Unique ID No: 1234		Risk Co-Ordinator: N/A	
		Risk Assessor(s) Joe Black/Joe Bloggs	
Chemical Name (Concentration):		Chemical Process:	
Formalin 10% neutral buffered		Used to fix and process samples in Histology	
Number of Employees Exposed:	Categories of employees likely to be exposed: (Tick)	Duration and frequency of contact (Hr/day):	
7 employees in contact with product at any one time.	Nursing Staff <input type="checkbox"/> Medical Staff <input type="checkbox"/> Care Staff <input type="checkbox"/> Maintenance Staff <input type="checkbox"/> Housekeeping <input type="checkbox"/> Others (please specify): Laboratory Technicians	Daily exposure for up to one hour at a time maximum.	
Safety Data Sheet available: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Location of SDS : Attached in departmental chemical inventory list on "X drive".	Date of SDS: 28/3/2017
Amount used and quantity stored	Hazard and risk associated with chemical:	Exposure route(s) (Tick):	Dustiness or Volatility: High, Medium or Low
1 x 5 litres drums in	H315 Causes skin irritation	Eyes <input checked="" type="checkbox"/>	No dust generated from this product

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lab used weekly. 2x5 litres stored in lab store at any one time.	H317-May cause an allergic skin reaction H318- Causes serious eye damage. H350- May cause cancer Inhalation) H402- Harmful to aquatic life.	Skin <input type="checkbox"/> x Ingestion <input type="checkbox"/> Inhalation <input type="checkbox"/> x	Volatility- no data available
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Chemical Agents Risk Assessment – Part 2 of 3									
✓ Classification, Labelling and Packaging (CLP) Hazard Symbols									
CLP SYMBOLS									
	Acute toxicity hazard	Serious long term health hazard	Health hazard	Corrosion Hazard	Environmental hazard	Flammability hazard	Oxidising Hazard	Explosion Hazard	Stored as gas under pressure
Tick appropriate pictogram. Refer to section 2 of SDS		✓	✓	✓					
Insert appropriate signal word i.e. danger or warning. Danger									
Occupational Exposure Limit Value (OELV) if applicable insert airborne OELV. Refer to Code of Practice to Chemical Agents Regulations 2018. OELV :0.2ppm OEL (8 hour reference period) & 0.4 ppm OEL (15 min reference period)									

HAZARD & RISK DESCRIPTION	EXISTING CONTROL MEASURES	ADDITIONAL CONTROLS REQUIRED	ACTION OWNER	DUE DATE
<p>Risk of ill health due to potential exposure to formalin to the Laboratory Technicians staff. The potential exposure route is via skin/ eye/ inhalation while processing histology samples daily.</p>	<p>Storage: Stored away from sources of ignition and direct sunlight. Drums are stored in a chemical storage cabinet currently separate to incompatible products such as strong bases, strong acids, & strong oxidizers as per SDS.</p> <p>Use: Use in accordance with manufacturer's instructions. Staff must adhere to the safety precautions as set out in the standard operating procedures for the fixation & processing of samples (SOP 001). Use chemicals in designated areas only and by trained staff. Students are supervised at all times in histology lab.</p> <p>Engineering controls: All specimen cut up tables have a down draft system, which is serviced annually and records maintained in the Lab Managers office.</p> <p>All heating, ventilation & air conditioning (HVAC) systems are on a preventative maintenance /validation schedule & records are maintained in lab Managers office.</p> <p>Occupational Hygiene: a comprehensive Occ Hygiene programme is in place within the lab. Results are reviewed carefully to ensure there are no OEL exceedances. Last monitored in September 2018, report results have been communicated to staff in the H&S meeting of October 2018, minutes available. Any recommendations implemented. Future monitoring planned for September 2019 unless work practices change.</p>	<p>Continuous monitoring & review of all existing controls. Implementation and supervision of all standard operating procedures by all staff.</p>	<p>Joe Black/all Employees</p>	<p>17/12/2018</p>

	<p>PPE: Based on Occ hygiene results the following PPE is mandated for use. Gloves, chemical goggles or safety glasses, chemical resistant apron (pouring formalin) provided to staff.</p> <p>Waste: All waste containers/materials labelled and placed in the store room for collection by licensed chemical disposal company in accordance with the transportation of Dangerous Goods requirements.</p> <p>Spill Procedure: In the event of a spillage safety glasses, protective clothing, gloves, a combined gas/dust mask with filter type A/P3 to be worn. Ventilate the area, spillage kit to be used. Spillage procedure to be implemented. Spill kit located in lab reception. Employees trained in its use. All spillages recorded on incident reporting form by lab Manager. Investigation completed by lab manager and staff.</p> <p>In the event of a fire follow local procedures and training.</p> <p>First Aid: <u>Skin Contact:</u> Wash with plenty of liquid soap & water. If skin irritation or rash occurs get medical advice/ attention. <u>Eye Contact:</u> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing refer to ED department for review. <u>Ingestion:</u> Rinse mouth. Do not induce vomiting. Refer to ED department for review. <u>Inhalation:</u> If safe remove the staff member from the area and allow the staff member to breathe fresh air and to rest.</p> <p>Following an incident/accident all staff to be sent to Emergency department with a copy of Formalin SDS for medical review.</p> <p>Hygiene measures: to reduce potential exposure wash hands with</p>			
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<p>liquid soap & water before eating, drinking and when leaving work.</p> <p>Health surveillance: The Occupational Health team/ safety professionals have reviewed the Occ hygiene results and the risk assessment and have determined that Health Surveillance is not required at this time. Should a staff member suffer any symptoms, which is suspected to be the result of exposure to Formalin then a referral to the local Occ health Department will be made by the Lab Manager.</p> <p>Training: All staff have completed chemical safety module on HSEland. Records maintained by Lab manager. Tailored training on the specific chemicals used in the lab has been provided, records maintained by Lab Manager.</p>					
INITIAL RISK			Risk Status		
Likelihood	Impact	Initial Risk Rating	Open	Monitor	Closed
Unlikely (2)	Minor(2)	L4	✓		

SAMPLE