The Sheffield Biorepository

Risk Assessment Form

PERSONS AT RISK : (X) Employees () Contractors () Public () Visitors ( ) Others			**Reference No: BIO RA Compressed Gas**	
Risk: (H) High (M) Medium (L) Low (O) No Risk.			**Environment: Biorepository**	
TASK or ACTIVITY:		**INITIAL RISK**		**FINAL RISK**
SIGNIFICANT HAZARD	**RISK**	**RATING**	**EXISTING CONTROL/PROPOSED CONTROL MEASURES**	**RATING**
Injury to users	Asphyxiation from N2, CO2 etc	H	In the event of a cylinder being discharged or an oxygem depeltion meter	L
			sounding evacuate the area immediately and do not return until all the gas	
			has dispersed. Signage to be displayed on doors indicating nature of	
			evacuation. Floor Lead/Kevin Corke to be informed	
			and meter fitted if room size requires one.	
Injury to users	Toxicity from CO2	H	Audible gas monitors to be used	L
Fire	Oxidation (supports burning) from 95% o2/5% CO2	H	Use and store away from sources of heat	L
	and CO2		In the event of fire evacuate area, activate fire alarm and dial 2222, inform	
			operator nature of incident. Impliment evacuation procedure.	
Injury to users	Injury from incorrect movement of cylinders	M	Three or four wheel cylinder trolleys to be used for movement of cyliders at	L
			all times. Protective footware (steel caps) and named trained staff to move	
			large cylinders	
Injory to user	Damage to eyes on accidental discharge of	H	Impact level F eye protection to be worn at all times when using compressed	L
	cylinder contents		gases.	

Comments: Use compressed air rather than nitrogen where possible. All users to attend University training for compressed gasses and this training to be recorded by floor lead.

Overall Risk: **L**

Additional References, Tasks etc: SOP to be displayed by all cylinders and new users to be trained by named member of staff. Cylinders to be delivered to point of use where possible. All regulators to be logged on School register. Service exchange date should be clearly displayed on each regulator and no regulator should be used beyond that date. All regulators to be serviced every year and records kept accordingly. All cylinders to be made secure at point of use or storage point and never left unsupported.

All regulators to be leak tested with teepol on a regular basis and when cylinder is changed.

Never transport a cylinder whilst it is attached to a piece of equipment.

If an oxygen depletion meter alarm sounds and unconcious body can be seen in the room, ensure you are not putting yourself in danger by entering the room, get help and seek medical advice.

Undertaken By:	Steven Haynes		
Other Persons Consulted:	Kevin Corke		
Date:	**17/02/2019**	**Revision Date:**	17/02/2020