

Hazardous Substances Policy - Assessment

CHEMICAL HAZARD AND RISK ASSESSMENT

College of Life & Environmental Sciences

Name of supervisor	Ole Jensen		Assessment Number*	MSRCompress#1
	Signature			
Assessor	Jonathan L Winter		Date of Assessment	21/11/2019
	Signature			

Notes Read the guidance notes at the end of the form for help on completing an assessment. Please complete this form as an ELECTRONIC VERSION ONLY, and submit it to the School's appropriate technical manager for approval.

1 LOCATION OF THE WORK ACTIVITY **IHR Tank Room (G24), CHBH, Psychology.**

2 PERSONS WHO MAY BE AT RISK

List names where possible **MEG Support Officer, visiting Service personnel (MEGIN, Estates)**

3 ACTIVITY ASSESSED **Jun-Air Model 12-25 Air Compressor used to open/shut MSR door (G20A)**

4 MATERIALS INVOLVED

NAME and CAS #	AMOUNT and FORM	SIGNAL WORD	HAZARD STATEMENT(S)	REPORTABLE?
Jun-Air Model 12-25 s/n: 1017800563 PS 16 BAR V 25Litre V 230v 50-60Hz	Compressed Gas (up to 25L at 120 PSI)	Air Embolism Flying dust/debris Electrocution Noise Flying Tubing	N/A	N

If a substance is reportable, have you reported it to Occupational Health? YES / NO (See note 4)

Is the substance a controlled drug or precursor under the Misuse of Drugs Act 1971 and associated regulations? YES / NO (See note 14)

5 INTENDED USE and JUSTIFICATION (where appropriate)

Give brief details and attach protocol/instructions. Justification is needed for exceptionally hazardous substances (See note 5)

Air Compressor used to provide air pressure to open/close MSR door. Air pressure required for usage 6bar. Air Compressor cuts out automatically at 7bar. Air Compressor operates automatically, no user intervention required in correct, daily usage. Max. 15min on, then 15min off required before restart.

6 RISKS to HEALTH and SAFETY from INTENDED USE

From personal exposure or hazardous reactions. Refer to WELs, flash points, etc., as appropriate. Are pregnant women, breast-feeding mothers especially at risk?

**No user in proximity of/same room as Air Compressor in normal, daily usage.
Air entering bloodstream (embolism) and eye damage if directly exposed to high pressure air.
Air pressure is set to 6bar for correct usage.
Eye Irritation from flying dust/debris.
Electric shock.
Damage to hearing if sudden release of pressure.
In use, Noise level is 48dB(a) @1m, below 80dB (as defined in "The Control of Noise at Work Regulations 2005").**

7 CONCLUSIONS ABOUT RISKS

Is level of risk acceptable? Can risk be prevented or reduced by change of substance/procedure? Are control measures necessary?
Level of risk is acceptable.

8 CONTROL MEASURES

Additional to *Good Chemical Practice*, e.g. fume cupboard, etc. Any special requirements, e.g. glove type, etc.
Regular weekly visual inspection, all tubing checked/connections are properly made, no loose wiring or damaged switches.
Compressor serviced annually, plus Safety Valve checked, max/min pressures checked.

9 INSTRUCTION/TRAINING

Specify course(s) and/or special arrangements.
No user intervention required in normal, daily usage.
Operating Manual readily available for use by MEG Support Officer/other personnel, as necessary.

10 MONITORING

Performance of control measures.
N/A

Personal exposure	N/A	Health Surveillance, specify measures agreed with health and Safety Unit.
		N/A

11 WASTE DISPOSAL PROCEDURE

See School Server for Approved Procedure Document on specific Chemical Waste Disposal.
Include name, 6-digit code and H number if waste is to be disposed of by outside contractors (See note 11)
N/A (compressed air)
After oil change (synthetic lubricant SJ-27), waste oil removed by Service personnel or disposed as per University Hazardous Waste Policy – Waste Disposal, Schedule 7.1. Waste Code: 13 02 06 (Absolute)

12 REVIEW

Enter the date or circumstances for review of assessment (maximum review interval 5 years)
21/11/2024

13 EMERGENCY ACTION

TO CONTROL HAZARDS	To stabilize situation e.g., spread absorbant on liquid spill; eliminate sources of ignition, etc.		
Electrical power disconnected. Safety Valve operated to reduce pressure, or Filter Valve operated in MSR Side room (G20B, on wall).			
TO PROTECT PERSONNEL	Evacuation, protection for personnel involved in clean-up, Special First Aid		
Personnel withdraw from immediate vicinity First Aid response/treatment/medical attention as required/appropriate.			
TO RENDER SITE OF EMERGENCY SAFE	Clean-up/decontamination		
Safety Valve operated to reduce pressure; Compressor switched off/power supply disconnected.			
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