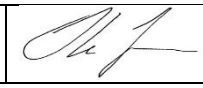
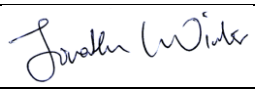
Hazardous Substances Policy - Assessment

CHEMICAL HAZARD AND RISK ASSESSMENT

College of Life & Environmental Sciences

Name of supervisor	**Ole Jensen**	 Signature	Assessment Number*	**DC/JW0001**	
Assessor	**Jonathan L Winter**	 Signature	Date of Assessment	**29/10/2019**	

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 — **MEG Laboratory (Control Room), CHBH**

2 PERSONS WHO MAY BE AT RISK

List names where possible: **MEG Operators & Participants**

3 ACTIVITY ASSESSED — **Usage of Isopropyl Alcohol to clean HPI coils**

4 MATERIALS INVOLVED

NAME and CAS #	AMOUNT and FORM	SIGNAL WORD	HAZARD STATEMENT(S)	REPORTABLE?
Isopropyl Alcohol (PROPAN-2-OL) 67-63-0	**60ml liquid (in pot)**	**Highly Flammable Liquid & Vapour**	**R11: Highly Flammable** **R36/67: Irritating to eyes and respiratory system.** **May cause drowsiness/dizziness if inhaled**	**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)

Daily cleaning of Head Position Indicator (HPI) coils to remove attachment tape residue, and to disinfect ready for reuse. HPI coils are dipped in 60ml pot, wiped, left on paper towel to dry.

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?

Risk of Fire. Flash point of 12°C

Risk of irritation from splashes to eyes.

Risk of adverse effects from inhalation of vapour, WEL is 500ppm, 1,250 mg/m^3 (15min).

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.

60ml pots are kept in flammable cabinet out of normal working hours. No sources of ignition are present in MEG Control Room, in area of usage.
MEG Control Room has building-controlled ventilation to remove any fumes.
Avoid contact with eyes, avoid inhalation of vapour.
After use, pots are carefully resealed (dual lid), and kept upright to prevent leakage.

9 INSTRUCTION/TRAINING

Specify course(s) and/or special arrangements.

MEG Operators are trained in the correct procedure for cleaning HPI coils as part of MEG Operator training.

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 the be disposed of by outside contractors (See note 11)

Treat as non-halogenated waste solvent, and dispose using codes H3A and 14 06 03
Dispose of as per University Hazardous Waste Policy – Waste Disposal, Schedule 7.1

12 REVIEW

Enter the date or circumstances for review of assessment (maximum review interval 5 years)

29/10/2020

13 EMERGENCY ACTION

TO CONTROL HAZARDS To stabilize situation e.g., spread absorbant on liquid spill; eliminate sources of ignition, etc.

Extinguish all sources of ignition. Ventilate the affected area. Wearing lab coat, eye protection, disposable gloves – mop up spills with tissue/paper towel. Allow tissue/paper towel to evaporate in well ventilated area, preferably outside, away from sources of ignition.
Store tissue/paper towel in suitable, labelled container. Dispose via Schedule 7.1
Firefighting: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

TO PROTECT PERSONNEL Evacuation, protection for personnel involved in clean-up, Special First Aid

If affected by vapour, remove personnel to fresh air and seek medical attention if symptoms persist.
If eyes severely affected, wash with running water (~15min minimum) and seek medical attention.
In case of skin contact, wash off with soap and plenty of water.
If swallowed, DO NOT induce vomiting. Rinse mouth with water and seek medical attention

TO RENDER SITE OF EMERGENCY SAFE Clean-up/decontamination

Clean area with lots of water and dry thoroughly.

CONTACT **Jonathan L Winter** PHONE **42857**