

Risk Assessment Form

(This is an active document and must be maintained)



UNIVERSITY OF
CAMBRIDGE

Materials Science and Metallurgy

Date: 14th September 2017

Supervisor of Room/Area: **Prof. Serena Best & Prof. Ruth Cameron**

Room or area: **2_014 (CCMM Labs)**
(Describe location)

Name of Assessor(s): **Wayne Skelton-Hough**

Title of Activity / Experiment / Work Area:

Use of the Purite Select Fusion water treatment unit

Description of Activity / Experiment / Work Area:

The Purite Select Fusion water treatment unit automatically produces type 1 and type 2 pure water from the mains water supply to the unit.

Type 2 water is stored in a large (15 liter) tank built into the right hand side of the water treatment unit and can be accessed via a plastic tap at the bottom of the tank.

Type 1 water is produced as required by putting type 2 water through a secondary treatment process and dispensing it via a nozzle on the front of the machine. Type 1 water can only be accessed once there is sufficient water in the type 2 tank to allow take off for secondary treatment.

The water treatment process is fully automated and requires no additional intervention by laboratory users.

SECTION 1: Identify all significant hazards, who or what may be affected by each individual hazard and controls in place to reduce risk to a minimum.

Hazard Description	Hazard to whom or what	Controls in place to reduce risk to a minimum
Electrocution	Operator	<ul style="list-style-type: none">• Inspect all electrical equipment and power cables before use and do not use any equipment that shows any signs of damage.• Ensure electrical equipment carries an up to date PAT label before using it.• DO NOT remove the side covers on the unit. Access to the electrical system shall only be by competent trained personnel.• DO NOT switch on any electrical equipment that gets wet.

Hazard Description	Hazard to whom or what	Controls in place to reduce risk to a minimum
Water on floor	All laboratory users	<ul style="list-style-type: none"> • Ensure that any water spills are mopped up immediately using paper towels. • If a sustained leak is identified, isolate the water supply at the valve behind the unit and inform the laboratory technician who will investigate the leak and take and necessary actions.

SECTION 2: Emergency Procedures

In the event of evacuation, the Purite unit may safely be left unattended

Power to the water treatment unit is via a 13 amp plug top. The unit can be switched off at the plug at any time without the need to follow a shut-down procedure.

Water for the unit is supplied via an initial filter unit from an outlet behind the unit. Water supply can be isolated by the plastic valve in the pipe.

Signature of Assessor(s)		Date: 15/08/17
Signature of Supervisor		Date: 19/9/12

SECTION 3: Review - This assessment must be reviewed every 12 months or earlier if the basis of the original assessment is altered.

Review Date	Reviewed by (Signature)

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Change log

Change	Date	Updated by	Description
1	19/09/2016	W. Skelton-Hough	Document issued.
2	14/09/2017	W. Skelton-Hough	Document title added to document footer
3	15/09/2017	W. Skelton-Hough	Section 3 of risk assessment added back into document.