

# Risk Assessment Form

(This is an active document and must be maintained)



UNIVERSITY OF  
CAMBRIDGE

Materials Science and Metallurgy

Date: 25<sup>th</sup> September 2017

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

Room or area: **2\_014 (CCMM main lab)**  
(Describe location)

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

Title of Activity / Experiment / Work Area:

**Use of the Retsch AS200 sieve shaker**

Description of Activity / Experiment / Work Area:

Using the Retsch sieve shaker to grade powder by vibrating the powder through a stack of different sized laboratory sieves.

**Note:** this does not cover any specific or extraordinary risks or hazards associated with the materials to be sieved. Any such risks or hazards **MUST** be assessed in a chemical hazard risk assessment (COSHH) **BEFORE** any work is attempted.

**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.

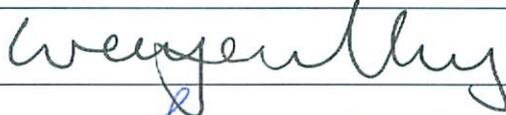
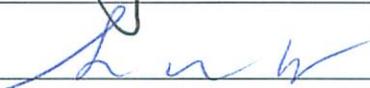
Hazard Description	Hazard to whom or what	Controls in place to reduce risk to a minimum
Electricity	Operator	<ul style="list-style-type: none"><li>Inspect all electrical equipment and power cables before use and do not use any equipment that shows any signs of damage.</li><li>Ensure electrical equipment carries an up to date PAT label before using it.</li></ul>
Excessive vibration	Operator	<ul style="list-style-type: none"><li>Only set up the sieve stack with the sieve shake switched off.</li><li>Once running, do not touch the vibration table for prolonged periods of time.</li><li>If the sieve stack needs to be re-secured, only press down on the green quick acting clamp lever</li></ul>
Exposure to powdered sample	Operator and other laboratory users	<ul style="list-style-type: none"><li>Carry out a COSHH assessment of the powder to be sieved <b>BEFORE</b> use.</li><li>Allow the powder in the sieves to settle before removing the sieve stack from the shaker.</li></ul>

Noise	Operator and other laboratory users	<ul style="list-style-type: none"> <li>• ALWAYS isolate the sieve shaker at the mains plug when not in use.</li> <li>• Ensure that the sieve stack is securely clamped in place using the sieve fixing cover and quick clamps before switching the sieve shaker on.</li> <li>• Do not place hard objects, such as ceramic milling balls into the top of the sieve stack.</li> <li>• Monitor the tightness of the sieve stack and re-secure if it becomes loose.</li> <li>• If sieving results in excessive noise, use hearing protection.</li> </ul>
Exposure to unknown chemicals	Operator and other laboratory users	<ul style="list-style-type: none"> <li>• Carry out a COSHH assessment of the powder to be sieved <b>BEFORE</b> use.</li> <li>• All users to be instructed during training to thoroughly clean the sieve shaker after use, in particular the sieve cover and any spilled powder.</li> </ul>

**SECTION 2: Emergency Procedures**

In the event of evacuation, the Retsch AS200 may safely be left unattended. In order to shut down, switch off at the mains.

Clean up all spills immediately.

Signature of Assessor(s)		Date: 25/09/17
Signature of Supervisor		Date: 26/9/17

**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)

Review Date	Reviewed by (Signature)

## Change log

Change	Date	Updated by	Description
1	22/09/2017	W. Skelton-Hough	Document issued.