

**SAFETY INFORMATION**

<b>NAME OF THE TASK/ACTIVITY</b>	<b>FEI TECHNAI G2 SPIRIT TEM</b>	<b>DATE: 12/02/2020</b>
<b>LOCATION</b>	ADELAIDE MICROSCOPY, GEORGE ROGERS LABORATORY, HELEN MAYO NORTH, NB14	Insert photo (Optional)
<b>Residual risk rating on the RA</b>	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very High	
<b>Hazards identified on the RA</b>	<b>Contact with electricity or potential for electric shock Contact with cold object.</b>	

**This Safety information should be provided to new users for them to read before undertaking and tasks/activities on the microscope.**

**Pre-operational checks**

YOU MUST NOT USE THIS MACHINE UNTIL YOU HAVE HAD APPROPRIATE TRAINING BY TRAINED ADELAIDE MICROSCOPY STAFF. Unauthorised use may result in damage to the instrument.

**Operational checks/steps to complete the activity from start to finish (including transport and waste disposal where relevant)**

- The Tecnai G2 Spirit TEM uses liquid nitrogen to cool the sample and prevent contamination of the instrument by hydrocarbons that are generated during operation of the microscope.
- Only trained Adelaide Microscopy staff are to refill the liquid nitrogen vessel.
- Personal protective equipment (PPE), including cryogloves, must be worn at all times when refilling liquid nitrogen or handling the liquid nitrogen vessel.
- Users must take care not to spill or touch the liquid nitrogen when using the instrument.
- **All new users must have a practical demonstration of the operation of the machine from a member of Adelaide Microscopy staff.**
- **Users should operate the instrument in accordance with the manufacturer supplied operating instructions to avoid damage to the instrument.**
- **The user operable parts are all accessible from the operator's console; users of the instrument should not attempt to remove any fixture or panel from the microscope.**
- **User should not access the rear of the microscope.**
- The safe handling of general laboratory items is detailed in the Adelaide Microscopy laboratory general safety procedures.
- Low stocks of consumable items (gloves, paper towel etc.) should be reported to a member of AM staff.

**On completion of work – steps to make safe (including clean up, any waste disposal & service/maintenance requirements)**


Remove all samples from the instrument and the laboratory after imaging.

**Emergency and Spill Procedures, Transport or storage requirements (where relevant), First aid/Medical**

In the event of an injury, please advise an Adelaide Microscopy staff member and first aid officer for treatment and the local HSW representative to report the incident.

In the event of a leak (either LN2 or SF6) indicated visually or by alarms from gas sensors in the room, users are to vacate immediately and notify staff.

**Prepared by**

People involved in the drafting of this Safety Information	Lyn Waterhouse Lisa O'Donovan Aoife McFadden		
Person authorising the Safety Information	Name:	Angus Netting	Signature
	Position:	Director, Adelaide Microscopy	

HSW Handbook	Hazard Management	Effective Date:	17 December 2019	Version 3.0
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